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OM protein - protein search, using sw model

Run on: December 7, 2005, 12:43:07 ; Search time 96.4502 Seconds  
(without alignments)  
1901.779 Million cell updates/sec

Title: US-09-319-724B-1  
Perfect score: 2347  
Sequence: 1 MYIDDLPIWGIVEADENGE.....FYFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2347	100.0	579	US-10-755-466-4	Sequence 4, Appli
2	2347	100.0	582	US-10-755-466-2	Sequence 2, Appli
3	2340	99.7	545	US-09-374-046A-26	Sequence 26, Appli
4	2340	99.7	545	US-10-616-263-26	Sequence 26, Appli
5	1745	74.4	586	US-10-287-436A-620	Sequence 620, App
6	1719.5	73.3	567	US-11-097-143-22278	Sequence 22278, A
7	1543	65.7	530	US-10-205-219-121	Sequence 121, App
8	1437	61.2	596	US-10-425-115-325471	Sequence 325471, A
9	1436	61.2	576	US-10-425-114-66140	Sequence 66140, A
10	1435	61.1	552	US-10-425-115-286624	Sequence 286624, A
11	1430	60.9	594	US-10-767-701-44284	Sequence 44284, A
12	1428.5	60.9	595	US-10-425-115-325582	Sequence 325582, A
13	1424	60.7	617	US-10-437-963-141888	Sequence 141888, A
14	1412	60.2	596	US-10-437-963-116913	Sequence 116913, A
15	1411	60.1	595	US-10-739-930-9909	Sequence 9909, Ap
16	1278.5	54.5	424	US-10-437-963-103141	Sequence 103141, A
17	1158	49.3	500	US-10-425-115-206340	Sequence 206340, A
18	915.5	39.0	341	US-10-424-599-246293	Sequence 246293, A
19	911.5	38.8	692	US-10-425-115-202293	Sequence 202293, A
20	910.5	38.8	627	US-10-425-114-42573	Sequence 42573, A
21	907.5	38.7	595	US-10-767-701-45514	Sequence 45514, A
22	906	38.6	624	US-10-425-114-45661	Sequence 45661, A
23	905.6	38.6	647	US-10-424-599-204944	Sequence 204944, A
24	905.5	38.6	589	US-10-425-115-359244	Sequence 359244, A
25	903	38.5	645	US-10-739-930-11074	Sequence 11074, A
26	902.5	38.5	623	US-10-425-114-62405	Sequence 62405, A
27	901.5	38.4	592	US-10-424-599-174369	Sequence 174369, A

28	900.5	38.4	594	US-10-739-930-11084	Sequence 11084, A
29	887	37.8	627	US-10-437-963-120941	Sequence 120941, A
30	852.5	36.3	559	US-10-739-930-10304	Sequence 10304, A
31	851.5	36.3	893	US-10-437-963-177000	Sequence 177000, A
32	842.5	35.9	625	US-10-394-136-54	Sequence 54, Appli
33	842.5	35.9	642	US-10-201-964-1	Sequence 1, Appli
34	842.5	35.9	642	US-10-885-101-1	Sequence 16401, A
35	826	35.2	630	US-11-097-143-16401	Sequence 165390, A
36	818	34.9	820	US-10-437-963-165390	Sequence 2819, Ap
37	812	34.6	218	US-10-264-237-2819	Sequence 206342, A
38	799	34.0	253	US-10-425-115-206342	Sequence 37646, A
39	786	33.5	237	US-10-425-114-37646	Sequence 195511, A
40	782	33.3	513	US-10-424-599-195511	Sequence 150528, A
41	772.5	32.9	642	US-10-437-963-150528	Sequence 10578, A
42	763.5	32.5	670	US-10-739-930-10578	Sequence 193953, A
43	758	32.3	639	US-10-425-115-193953	Sequence 218357, A
44	757	32.3	637	US-10-424-599-218357	Sequence 194452, A
45	754	32.1	639	US-10-425-115-194452	

ALIGNMENTS

RESULT 1

US-10-755-466-4  
; Sequence 4, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10/755,466  
; CURRENT FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: US/09/786,681  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-755-466-4

Query Match Similarity 100.0%; Score 2347; DB 5; Length 579;

Best Local Similarity 100.0%; Pred. No. 5.5e-220; Mismatches 0; Indels 0; Gaps 0;  
Matches 439; Conservative 0;

Qy	1	MYIDDLPIWGIVEADENGE	YLYWTKKLEIGFNGNRI	VDVNLTS	SEGVKLV	PNPTKIQM	60
Db	122	MYIDDLPIWGIVEADENGE	YLYWTKKLEIGFNGNRI	VDVNLTS	SEGVKLV	PNPTKIQM	181
Qy	61	SYSVWKKS	VDKFD	FDKYLDP	SFFQHR	IHWFSIFNS	FMVIFLVGLV
Db	182	SYSVWKKS	VDKFD	FDKYLDP	SFFQHR	IHWFSIFNS	FMVIFLVGLV
Qy	121	YARYSKEE	MDMDRD	LGDEY	GWKQV	GDVFRP	SSHPLIFSS
Db	242	YARYSKEE	MDMDRD	LGDEY	GWKQV	GDVFRP	SSHPLIFSS
Qy	181	AMIEDLYTER	GSMLSTAL	FVYAATS	PNVNGY	FGGSLYAR	QGGRRWIKOMF
Db	302	AMIEDLYTER	GSMLSTAL	FVYAATS	PNVNGY	FGGSLYAR	QGGRRWIKOMF
Qy	241	GTAFPFN	FIAYIHAS	RAIPGT	WVAVCCI	CFVFLPLN	LVGLTILGRNL
Db	362	GTAFPFN	FIAYIHAS	RAIPGT	WVAVCCI	CFVFLPLN	LVGLTILGRNL
Qy	301	AVPRPIPK	KWFM	PAIV	CLGGIL	PFCSI	FIEMWFIETSWAY
Db	422	AVPRPIPK	KWFM	PAIV	CLGGIL	PFCSI	FIEMWFIETSWAY
Qy	361	CIVTVC	VTIVCTY	FLNNAED	YRWQWTS	SFLSAA	STAIYVYMYSFY

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Db 482 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 541
Qy 421 YFGYMAVFSTALGIMCGAI 439
Db 542 YFGYMAVFSTALGIMCGAI 560

RESULT 2
US-10-755-466-2
; Sequence 2, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10755.466
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: US/09/786,681
; PRIOR FILING DATE: 2001-04-30
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-755-466-2

Query Match 100.0%; Score 2347; DB 5; Length 582;
Best Local Similarity 100.0%; Pred. No. 5.5e-220; Indels 0; Gaps 0;
Matches 439; Conservative 0; Mismatches 0;

Qy 1 MYIDDLPIWGVGEADENGEDYLLWTKYLEIGFNGNRIVDVNLTSGKVKLVPTNTKIOM 60
Db 125 MYIDDLPIWGVGEADENGEDYLLWTKYLEIGFNGNRIVDVNLTSGKVKLVPTNTKIOM 184
Qy 61 SYSVKWKKSDVKFEDREDKYLDPSPFFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKRD 120
Db 185 SYSVKWKKSDVKFEDREDKYLDPSPFFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKRD 244
Qy 121 YARYSKEEEMDDMRDLGDEYGWKQVHGDVFRPSSHPLIFSSLLGSGCQIPAVSLIIV 180
Db 245 YARYSKEEEMDDMRDLGDEYGWKQVHGDVFRPSSHPLIFSSLLGSGCQIPAVSLIIV 304
Qy 181 AMIEDLYTERGSMSTAIFFVYAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 240
Db 305 AMIEDLYTERGSMSTAIFFVYAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 364
Qy 241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPCRVN 300
Db 365 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPCRVN 424
Qy 301 AVPRPIPEKKWFMEPAVIVCLGGILPGSIFIEMYFIFTSFAYKIYVYVGFMMMLVLVIL 360
Db 425 AVPRPIPEKKWFMEPAVIVCLGGILPGSIFIEMYFIFTSFAYKIYVYVGFMMMLVLVIL 484
Qy 361 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 420
Db 485 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 544

Qy 421 YFGYMAVFSTALGIMCGAI 439
Db 545 YFGYMAVFSTALGIMCGAI 563

RESULT 3
US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
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; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fecthel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-26
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Query Match 99.7%; Score 2340; DB 3; Length 545;
Best Local Similarity 99.8%; Pred. No. 2.4e-219;
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 MYIDDLPIWGVGEADENGEDYLLWTKYLEIGFNGNRIVDVNLTSGKVKLVPTNTKIOM 60
Db 88 MYIDDLPIWGVGEADENGEDYLLWTKYLEIGFNGNRIVDVNLTSGKVKLVPTNTKIOM 147
Qy 61 SYSVKWKKSDVKFEDREDKYLDPSPFFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKRD 120
Db 148 SYSVKWKKSDVKFEDREDKYLDPSPFFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKRD 207
Qy 121 YARYSKEEEMDDMRDLGDEYGWKQVHGDVFRPSSHPLIFSSLLGSGCQIPAVSLIIV 180
Db 208 YARYSKEEEMDDMRDLGDEYGWKQVHGDVFRPSSHPLIFSSLLGSGCQIPAVSLIIV 267
Qy 181 AMIEDLYTERGSMSTAIFFVYAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 240
Db 268 AMIEDLYTERGSMSTAIFFVYAATSPVNGYFGGSLYARQGRRWIKOMFICAFILIPAMVC 327
Qy 241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPCRVN 300
Db 328 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLGSGQPNFPCRVN 387
Qy 301 AVPRPIPEKKWFMEPAVIVCLGGILPGSIFIEMYFIFTSFAYKIYVYVGFMMMLVLVIL 360
Db 388 AVPRPIPEKKWFMEPAVIVCLGGILPGSIFIEMYFIFTSFAYKIYVYVGFMMMLVLVIL 447
Qy 361 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 420
Db 448 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTSF 507
Qy 421 YFGYMAVFSTALGIMCGAI 439
Db 508 YFGYMAVFSTALGIMCGAI 526
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RESULT 4
US-10-616-263-26
; Sequence 26, Application US/10616263
; Publication No. US20040038276A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
```

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; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-616-263-26

Query Match          99.7%; Score 2340; DB 4; Length 545;
Best Local Similarity 99.8%; Pred. No. 2.4e-219;
Matches 438; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYIDDLPIWIGVEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGKVLVPNTKIOM 60
Db 88 MYIDDLPIWIGVEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGKVLVPNTKIOM 147

QY 61 SYSVKWKSVDKFEKDFDKYLPSPFHRIHWFSPNSFMMVIFLVGLVSMILMRTLKD 120
Db 148 SYSVKWKSVDKFEKDFDKYLPSPFHRIHWFSPNSFMMVIFLVGLVSMILMRTLKD 207

QY 121 YARYSKEEMDDMDRLDGLDEYQWGVHGVDPSPSSHPLIFSSLISSGCOIFAVSLIIV 180
Db 208 YARYSKEEMDDMDRLDGLDEYQWGVHGVDPSPSSHPLIFSSLISSGCOIFAVSLIIV 267

QY 181 AMIEDLYTERGSMSTAFIVYAATSPVNGYFGSLYARQGGRRWIKQMFAGFLIPAMVC 240
Db 268 AMIEDLYTERGSMSTAFIVYAATSPVNGYFGSLYARQGGRRWIKQMFAGFLIPAMVC 327

QY 241 GTAFINFTAIYHSAIRAIPFGTMVAVCCICFVILPLNLVGTILGRNLSGQPNPCRVN 300
Db 328 GTAFINFTAIYHSAIRAIPFGTMVAVCCICFVILPLNLVGTILGRNLSGQPNPCRVN 387

QY 301 AVPRPIKKWMEPAVIVCLGILPFGSIFIEFYFISWAYKIYVYVGMMLVLVIL 360
Db 388 AVPRPIKKWMEPAVIVCLGILPFGSIFIEFYFISWAYKIYVYVGMMLVLVIL 447

QY 361 CIVTCVTVCTVYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTSF 420
Db 448 CIVTCVTVCTVYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTSF 507

QY 421 YFGYNAVFTALGIMCGAI 439
Db 508 YFGYNAVFTALGIMCGAI 526

RESULT 5
US-10-287-436A-620
; Sequence 620, Application US/10287436A
; Publication No. US20050202421A1
; GENERAL INFORMATION:
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF
; FILE REFERENCE: 10872.514696
; CURRENT APPLICATION NUMBER: US/10/287,436A
; CURRENT FILING DATE: 2002-10-31
; PRIOR APPLICATION NUMBER: US 60/336,220
; PRIOR FILING DATE: 2001-10-31
; NUMBER OF SEQ ID NOS: 1446
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 620
; LENGTH: 586

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-287-436A-620

Query Match          74.4%; Score 1745; DB 5; Length 586;
Best Local Similarity 77.5%; Pred. No. 3.4e-161;
Matches 355; Conservative 12; Mismatches 51; Indels 40; Gaps 7;

QY 1 MYIDDLPIWIGVEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGKVLV--VPNTK 57
Db 131 MYIDDLPIWIGVEADENGEDYLLTYKKLEIGFNGNRIVDVNLTSEGKVLGSKYKNDP 190

QY 58 IQMSYSVKWKSVDKFEKDFDKYLPSPFHRIHWFSPNSFMMVIFLVGLVSMILMRTL 117
Db 191 VIFS--KWEKSDVKFEKDFDNIL-IVLFSHRIHWFSPNSFMMVIFLVGLVSMILMRTL 246

QY 118 RKDYARYSKEEMDDMDRLDGLDEYQWGVHGVDPSPSSHPLIFSSLISSGCOIFAVSLIV 177
Db 247 RKDYARYSKEEMDDMDRLDGLDEYQWGVHGVDPSPSSHPLIFSSLISSGCOIFAVSLIV 306

QY 178 IIVAMIEDLYTERGSMSTAFIVYAATSPVNGYFGSLYARQGGRRWIKQMFAGFLIPA 237
Db 307 IIVAMIEDLYTERGSMSTAFIVYAATSPVNGYFGSLYARQGGRRWIKQMFAGFLIPA 366

QY 238 MVCGTAFINFTAIYHSAIRAIPFGTMVAVCCICFVILPLNLVGTILGRNLSGQPNPC 297
Db 367 M-----GVHCLLHQFH-SHLLP-----CFKSHSFNNWNGRLLHLFCYSSKSC 409

QY 298 RVNAVPRPIPE-----KKWMEPAVIVCLGILPFGSIFIEFYFISF 341
Db 410 WYNTWPKSVRSQAQLSLSCCCASSYTGKMWVHGAIVVCLGILPFGSIFIEFYFISF 469

QY 342 WAYKIYVYVGMMLVLVILCVTVCTVYFLLNAEDYRWQWTSFLSAASTAIYVVMY 401
Db 470 WAYKIYVYVGMMLVLVILCVTVCTVYFLLNAEDYRWQWTSFLSAASTAIYVVMY 529

QY 402 SFYIYFFKTKMYGLFQTSFYFGYNAVFTALGIMCGAI 439
Db 530 SFYIYFFKTKMYGLFQTSFYFGYNAVFTALGIMCGAI 567

RESULT 6
US-11-097-143-22278
; Sequence 22278, Application US/11097143
; Publication No. US2005020858A1
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; TITLE OF INVENTION: DROSOPHILA GENES.
; FILE REFERENCE: CL000728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22278

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Db 318 LAIVGMLYIGRAIITTFIVCYALTSPISGVSGGLYSRSGKWKAMVLTAFLPPLC 377  
QY 240 CGTAFINFIAYYHASRAIPGTMVAVCCICFFVILPLNLVGTILGNLSQGNPFCRV 299  
Db 378 PSIGMLNTIAIFYSLAAIPGTMVAVCCICFFVILPLNLVGTILGNLSQGNPFCRV 437  
QY 300 NAVPRPIPEKKWMEPAVIVCLGGLIPFGSIFIEYFIFTSFPAWKIYVYVGFMMVLVI 359  
Db 438 KTIPIPEKKWLPSPVLSLGLLPFGSIFIEYFIFTSFPAWKIYVYVGFMMVLVI 497  
QY 360 LCIVTCVITVCTYFLLNAEDYRWQWTSFLSAASTAIYVYVYFYYFKTKMYGLFOT 419  
Db 498 LLIVTCVITVCTYFLLNAEDYRWQWTSFLSAASTAIYVYVYFYYFKTKMYGLFOT 557  
QY 420 FYFGYMAVFTALGIMCGAI 439  
Db 558 FYFGYTLMFCLGLGILCGAV 577

RESULT 9  
US-10-425-114-66140  
; Sequence 66140, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaska, Jack E.  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 66140  
; LENGTH: 576  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB4573-008-E4\_FLI.pep  
US-10-425-114-66140

Query Match 61.2%; Score 1436; DB 4; Length 576;  
Best Local Similarity 59.2%; Pred. No. 4.9e-131; Mismatches 104; Indels 2; Gaps 2;  
Matches 261; Conservative 74;

QY 1 MYIDDLPIWIGVEADENGE-DYILWYTKLEIGFNGNRIVDVNLTSEKVKLVPTNKIQ 59  
Db 117 LPIDDLPLWGFVGETDKNEKKHYLYTHKNIVVKNRNIHVNLTQESPKLLEAGKLD 176  
QY 60 MSYSVKKKSDVKFEDRFKLDPSFFOHRHWFISFNSFMVIFLVGLVSMILMRTLK 119  
Db 177 MTYSVKWQTNVAFARFEVLDYDFEHOHWFISFNSFMVIFLVGLVSMILMRTLK 236  
QY 120 DYARYSKE-BEMDDMDRLDGEYKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLVI 178  
Db 237 DYAKYAREDDLESLESDNEESGKLVHGDVFRPGRGOVFLSALVIGTQALAILVI 296  
QY 179 IVAMIEDLYTERGSMSTAIFYAATSPVNGYFGGSLYARQGRRWIKOMFTGAFILIPAM 238  
Db 297 VLAIWVLYVGRGAIITTFIVCYALTSPISGVSGGLYSRSGKWKAMILTAFLPPL 356  
QY 239 VCGTAFINFIAYYHASRAIPGTMVAVCCICFFVILPLNLVGTILGNLSQGNPFCRV 298  
Db 357 CFSIGLLNTIAIFYRSLAAIPFGTMVAVCCICFFVILPLNLVGTILGNLSQGNPFCRV 416  
QY 299 VNAPRPPIPEKKWMEPAVIVCLGGLIPFGSIFIEYFIFTSFPAWKIYVYVGFMMVLVI 358  
Db 417 VKTIPIPEKKWLPSPVLSLGLLPFGSIFIEYFIFTSFPAWKIYVYVGFMMVLVI 476  
QY 359 ILCIVTCVITVCTYFLLNAEDYRWQWTSFLSAASTAIYVYVYFYYFKTKMYGLFOT 418

Db 477 ILIIVTCVITVCTYFLLNAEDYRWQWTSFLSAASTAIYVYVYFYYFKTKMYGLFOT 536  
QY 419 SFYFGYMAVFTALGIMCGAI 439  
Db 537 SFYFGYTLMFCLGLGILCGAV 557

RESULT 10  
US-10-425-115-286624  
; Sequence 286624, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 286624  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_24498C.1.pep  
US-10-425-115-286624

Query Match 61.1%; Score 1435; DB 4; Length 552;  
Best Local Similarity 59.0%; Pred. No. 5.8e-131; Mismatches 104; Indels 2; Gaps 2;  
Matches 260; Conservative 75;

QY 1 MYIDDLPIWIGVEADENGE-DYILWYTKLEIGFNGNRIVDVNLTSEKVKLVPTNKIQ 59  
Db 93 LPIDDLPLWGFVGETDKNEKKHYLYTHKNIVVKNRNIHVNLTQESPKLLEAGKLD 152  
QY 60 MSYSVKKKSDVKFEDRFKLDPSFFOHRHWFISFNSFMVIFLVGLVSMILMRTLK 119  
Db 153 MTYSVKWQTNVAFARFEVLDYDFEHOHWFISFNSFMVIFLVGLVSMILMRTLK 212  
QY 120 DYARYSKE-BEMDDMDRLDGEYKQVHGDVFRPSSHPLIFSSLGSCQIFAVSLVI 178  
Db 213 DYAKYAREDDLESLESDNEESGKLVHGDVFRPGRGOVFLSALVIGTQALAILVI 272  
QY 179 IVAMIEDLYTERGSMSTAIFYAATSPVNGYFGGSLYARQGRRWIKOMFTGAFILIPAM 238  
Db 273 VLAIWVLYVGRGAIITTFIVCYALTSPISGVSGGLYSRSGKWKAMILTAFLPPL 332  
QY 239 VCGTAFINFIAYYHASRAIPGTMVAVCCICFFVILPLNLVGTILGNLSQGNPFCRV 298  
Db 333 CFSIGLLNTIAIFYRSLAAIPFGTMVAVCCICFFVILPLNLVGTILGNLSQGNPFCRV 392  
QY 299 VNAPRPPIPEKKWMEPAVIVCLGGLIPFGSIFIEYFIFTSFPAWKIYVYVGFMMVLVI 358  
Db 393 VKTIPIPEKKWLPSPVLSLGLLPFGSIFIEYFIFTSFPAWKIYVYVGFMMVLVI 452  
QY 359 ILCIVTCVITVCTYFLLNAEDYRWQWTSFLSAASTAIYVYVYFYYFKTKMYGLFOT 418  
Db 453 ILIIVTCVITVCTYFLLNAEDYRWQWTSFLSAASTAIYVYVYFYYFKTKMYGLFOT 512  
QY 419 SFYFGYMAVFTALGIMCGAI 439  
Db 513 SFYFGYTLMFCLGLGILCGAV 533

RESULT 11  
US-10-767-701-44284  
; Sequence 44284, Application US/10767701  
; Publication No. US20040172684A1  
; GENERAL INFORMATION:

```
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53535)B
; CURRENT APPLICATION NUMBER: US/10/767,701
; CURRENT FILING DATE: 2004-01-29
; NUMBER OF SEQ ID NOS: 63128
; SEQ ID NO 44284
; LENGTH: 594
; TYPE: PRT
; ORGANISM: Sorghum bicolor
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(594)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: SORBI-28MAY03-C12526_1.pep
US-10-767-701-44284
```

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Query Match 60.9%; Score 1430; DB 4; Length 594;
Best Local Similarity 59.3%; Pred. No. 2e-130;
Matches 261; Conservative 74; Mismatches 103; Indels 2; Gaps 2;
```

```
QY 2 YIDDLPIWGIVGEADENGED-YVLTWYKLEIGFNGNRIVDVNLTSGKVKLVPTNTKIOM 60
DB 136 FIDDLPLWGFVGETDKNSKNHYLYTHKNLVXVNDNRIIHVNLTQSPKLLDGKKLEM 195
QY 61 SYSVKMKKSDVKF-EDRFDKYLDPSPFQHRHWFSEFNSFMMVIFLVGLVSMILMRLTKD 120
DB 196 TYSVKWATDVSPARRFEVLDYFFFEHQHWFSEFNSFMMVIFLTGLVSMILMRLTURED 255
QY 121 YARYSKE-EEMDDMDRLDGEYGHQVHGDFRPSHPLIFSSLIGSGCQIFAVSLVIV 179
DB 256 YAKYAREDDDLSELDNEESGKLVHGDVFRPPQSLMFLSALVIGIGTQLAALSRLVIV 315
QY 180 VAMEDLYTERGSMSTAFVYAATSPVNGYFGSLYAROGGRWIKOMFAGFLIPAMV 239
DB 316 LAIVGMVLYIGRAIITTFIVCYALTFSFGYVSGGLYSRNGGKNWIKAMVLTASLPFLC 375
QY 240 CGTAFINFIATYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRV 299
DB 376 FSGFALNTAIFYRSLAIPFGTMVAVFVWAFISFPLVLLGTIVGRNWSGAPNFCRV 435
QY 300 NAVPRPIPEKKWFMEPAVIVCLGILPFGSIFIEFYFTSWAYKIYYVYGFMMVLVI 359
DB 436 KTIPRPIPEAKWYLTSPVISLMGGLLPFGSIFIEFYFTSWYKYYVYVYGFMLLVFI 495
QY 360 LCIVTVCTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFQTS 419
DB 496 LLIVTICVTIVCTYFLLNAENYHMQWTSFSSAASTALYVLYSIYYHYHVTKMSGFFQTS 555
QY 420 FYFGYMAVFSTALGIMCGAI 439
DB 556 FYFGYTLMPCLGLILCGAI 575
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RESULT 12
US-10-425-115-325582
; Sequence 325582, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
```

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; SEQ ID NO 325582
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(595)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_599C.1.pep
US-10-425-115-325582
```

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Query Match 60.9%; Score 1428.5; DB 4; Length 595;
Best Local Similarity 59.4%; Pred. No. 2.7e-130;
Matches 262; Conservative 73; Mismatches 103; Indels 3; Gaps 3;
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```
QY 2 YIDDLPIWGIVGEADENGED-YVLTWYKLEIGFNGNRIVDVNLTSGKVKLVPTNTKIOM 60
DB 136 FIDDLPLWGFVGETDKNSKNHYLYTHKNLVKYNDRRIIHVNLTQSPITLEDGKKLEM 195
QY 61 SYSVKMKKSDVKF-EDRFDKYLDPSPFQHRHWFSEFNSFMMVIFLVGLVSMILMRLTK 119
DB 196 TYSVKWATDVSPARRFEVLDYPPFEHQHWFSEFNSFMMVIFLTGLVSMILMRLTN 255
QY 120 YARYSKE-EEMDDMDRLDGEYGHQVHGDFRPSHPLIFSSLIGSGCQIFAVSLVI 178
DB 256 DYAKYAREDDDLSELDNEESGKLVHGDVFRPPQSLMFLSALVIGIGTQLAALILVI 315
QY 179 IVAMIEDLYTERGSMSTAFVYAATSPVNGYFGSLYAROGGRWIKOMFAGFLIPAM 238
DB 316 VLAIVGMVLYIGRAIITTFIVCYALTFSFGYVSGGLYSRNGGKNWIKAMVLTASLPFL 375
QY 239 VCGTAFINFIATYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQNPFCR 298
DB 376 FSGFALNTAIFYRSLAIPFGTMVAVFVWAFISFPLVLLGTIVGRNWSGAPNPCR 435
QY 299 NAVPRPIPEKKWFMEPAVIVCLGILPFGSIFIEFYFTSWAYKIYYVYGFMMVLVI 358
DB 436 KTIPRPIPEKKWYLTSPVISLMGGLLPFGSIFIEFYFTSWYKYYVYVYGFMLLVFV 495
QY 359 ILCIVTVCTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVYMYSFYFFKTKMYGLFOT 418
DB 496 LLIVTICVTIVCTYFLLNAENYHMQWTSFSSAASTALYVLYSIYYHYHVTKMSGFFOT 555
QY 419 SFYFGYMAVFSTALGIMCGAI 439
DB 556 SFYFGYTLMPCLGLILCGAI 576
```

```
RESULT 13
US-10-437-963-141888
; Sequence 141888, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 141888
; LENGTH: 617
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
```

```

140 FMDDL--WGFVGETDKNNENKRYLYTHKSIILVKYNDNRI IHVNLQBSPKLLLEAGKKLDM 19
;
Qy 61 SYSVKKKSDVKFDRDKYLDPSFFQHRHWFHSIFNSFMVVI FLVGLVSMILMRTLKRD 120
:||||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 198 TYSVKMLQTVTFARRPEVYLDYPPFEHQIHWFSIFNSFMVVI FLTGLVSMILMRTLND 257
;
Qy 121 YARYSKE-EEEMDDMDRLGDDEYGHKWQVHDVFRPSHPLIFSSLTSGSCQIIPAVSLIVII 179
:|:|:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 258 YAKYAREDDDLLESLERDVNEESGKWLHVGDFRPPRSIAFSAVVVGIGTQLAALILLVIV 317
;
Qy 180 VAMIEDLYTERGSMLSIAIFYAATSPVNGYFGGSLYAROGGRRIWKOMFICAFIIPAMV 239
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 318 LAIVGMILYVGRGSIITTFIVCYALTSTFISYVSGLSYRNGGKNWIKAMILTASLFFPFLC 377
;
Qy 240 CGTAFFINFIAIYYHASRAIPFGTWAVGCCICFFVILPLNLVLVTGTLGRNLSGQNPFCRV 299
:|:|:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 378 FAIGFVLNTAIFYRSLAAIPFGTWVMFVLWAFISFPLVLLGTVGRNWSGAPNPNPCRV 437
;
Qy 300 NAVPRPIPEKKWFMEPAVIVCLGILPPGSIPIEMYFIPTSFWAYKIYYVYGFMMLVLVI 359
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 438 KTIPIPIPEKKWYLTPTSIVSLMGGLLPPGSIPIEMYFVPTSFNWKVYVYVYGFMLLVFI 497
;
Qy 360 LCIVTVCTIVCTYFLNAEDYRQWTSFLSAASTAIYVVMYSFYYPKTKMYGLPQTS 419
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 498 LLIVTICTIVGTYFLNAENYHQMWTSFLSAASTALYVYIYSIYYHYHVKTKMSGFFQTS 557
;
Qy 420 FYGYMAVFSALGIMCGAI 439
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 558 FYFGYTLMFCLGLGILCGAI 577
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
;
RESULT 15
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED W
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10/739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURES:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C2111_1.p
US-10-739-930-9909

Query Match 60.1%; Score 1411; DB 5; Length 595;
Best Local Similarity 58.4%; Pred. No. 1.4e-128;
Matches 257; Conservative 74; Mismatches 107; Indels 2; Gaps 2

Qy 2 YIDLPWTGIVGEADENGED--YLYLTWYKLBIGFNGNRIVDNLVLTSEGVKLVPNTKIQM 60
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 137 FIDDLPLWGFGETDKSENKHLYLTHKNILVKYNDNRI IHVNLQBSPKLLDAGKNLDM 196
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Qy 61 SYSVKKKSDVKFDRDKYLDPSFFQHRHWFHSIFNSFMVVI FLVGLVSMILMRTLKRD 120
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 197 TYSAKWPTDVSFARRPEVYLDYPPFEHQIHWFSIFNSFMVVI FLTGLVSMILMRTLND 256
;
Qy 121 YARYSK-EEEMDDMDRLGDDEYGHKWQVHDVFRPSHPLIFSSLTSGSCQIIPAVSLIVII 179
:|:|:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 257 YAKYAREDDDLLESLERDVNEESGKWLHVGDFRPPRSITLLSALVGIGTQLAALILLVIV 316
;
Qy 180 VAMIEDLYTERGSMLSIAIFYAATSPVNGYFGGSLYAROGGRRIWKOMFICAFIIPAMV 239
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:
Db 317 LAIVGMILYVGRGAIITTFIVCYALTSPISGVVSAGLSYRNGGKNWIKAMILTASLFFPFLH 376
;
Qy 240 CGTAFFINFIAIYYHASRAIPFGTWAVGCCICFFVILPLNLVLVTGTLGRNLSGQNPFCRV 299
:||||| :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|: :||:|:

```

Db 377 FAIGFALNTIAIFYGSLAAIPFGTWWVIFVLWAFISFPLVLLGTVVGRNWSGAPNNPCRV 436  
Qy 300 NAVPRPIPEKKWFEPVIVCLGGILPFGSIFIEMYFITSFWAYKJYVVYGFMMVLVI 359  
Db 437 KTI PRPIPERKWLTPSVISLMGGLLPFGSIFIEMYFVTSFWNYKVYVVYGFMLLVFI 496  
Qy 360 LCIVTVCTIIVCTYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLFQTS 419  
Db 497 LLIVTICVTIIVGTYFLLNAENYHWQWTSFFSAASTALYVLYSIYVYHVTKMSGFFQTS 556  
Qy 420 FYGYMAVFSTALGIMCGAI 439  
Db 557 FYGYTLMFCLGLGILCGAI 576

Search completed: December 7, 2005, 13:01:56  
Job time : 98.4502 secs

GenCore version 5.1.6  
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OM protein. - protein search, using sw model

Run on: December 7, 2005, 12:43:22 ; Search time 6.05517 Seconds  
(without alignments)  
404.871 Million cell updates/sec

Title: US-09-319-724B-1  
Perfect score: 2347  
Sequence: 1 MYIDPLPIWIGVEADNGE.....FYFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 32527 seqs, 5584426 residues

Total number of hits satisfying chosen parameters: 32527

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA New:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pap.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pap.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pap.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pap.\*
- 5: /cgn2\_6/ptodata/2/pubpaa/ECT\_NEW\_PUB.pap.\*
- 6: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pap.\*
- 7: /cgn2\_6/ptodata/2/pubpaa/US11\_NEW\_PUB.pap.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	178.5	7.6	114	6 US-10-821-234-1140	Sequence 1140, Ap
2	109	4.6	468	6 US-10-793-626-868	Sequence 868, App
3	109	4.6	468	6 US-10-793-626-1618	Sequence 1618, Ap
4	104	4.4	368	7 US-11-082-389-320	Sequence 320, App
5	102.5	4.4	433	7 US-11-082-389-332	Sequence 332, App
6	94.5	4.0	538	7 US-11-119-683-1	Sequence 1, Appli
7	94	4.0	553	7 US-11-090-439-18	Sequence 18, Appl
8	93.5	4.0	407	6 US-10-821-234-1389	Sequence 1389, Ap
9	93.5	4.0	464	6 US-10-689-742-164	Sequence 164, App
10	90.5	3.9	506	6 US-10-485-517-344	Sequence 344, App
11	89.5	3.8	412	6 US-10-793-626-368	Sequence 368, App
12	88	3.7	275	6 US-10-467-657-2242	Sequence 2242, Ap
13	88	3.7	541	6 US-10-131-826A-14	Sequence 14, Appl
14	86	3.7	302	6 US-10-858-730-119	Sequence 119, App
15	86	3.7	346	6 US-10-793-626-504	Sequence 504, App
16	86	3.7	383	6 US-10-793-626-2026	Sequence 2026, Ap
17	85.5	3.6	266	7 US-11-102-240-2	Sequence 2, Appli
18	85.5	3.6	456	7 US-11-074-176-238	Sequence 238, App
19	84.5	3.6	465	6 US-10-793-626-2928	Sequence 2928, Ap
20	84	3.6	538	6 US-10-793-626-3134	Sequence 3134, Ap
21	84	3.6	635	6 US-10-821-234-1673	Sequence 1673, Ap
22	82	3.5	350	6 US-10-485-517-288	Sequence 288, App
23	82	3.5	513	6 US-10-858-730-197	Sequence 197, App
24	82	3.5	771	7 US-11-147-047-34	Sequence 34, Appl
25	81.5	3.5	485	6 US-10-821-234-934	Sequence 934, App

26	81.5	3.5	501	7 US-11-055-822-52	Sequence 52, Appl
27	80	3.4	312	6 US-10-858-730-117	Sequence 117, App
28	80	3.4	391	6 US-10-793-626-1236	Sequence 1236, Ap
29	80	3.4	422	6 US-10-793-626-1910	Sequence 1910, Ap
30	79.5	3.4	411	7 US-11-092-140-98	Sequence 98, Appl
31	79.5	3.4	564	6 US-10-485-517-253	Sequence 253, Appl
32	79.5	3.4	564	6 US-10-485-517-290	Sequence 290, App
33	79	3.4	342	6 US-10-793-626-2854	Sequence 2854, Ap
34	79	3.4	352	7 US-11-068-686-20	Sequence 20, Appl
35	79	3.4	390	6 US-10-485-517-331	Sequence 331, App
36	79	3.4	502	7 US-11-113-424-65	Sequence 65, Appl
37	79	3.4	502	7 US-11-113-424-66	Sequence 66, Appl
38	79	3.4	502	7 US-11-113-424-67	Sequence 67, Appl
39	78.5	3.3	394	6 US-10-392-234A-46	Sequence 46, Appl
40	78.5	3.3	2333	7 US-11-096-281-13	Sequence 13, Appl
41	78	3.3	501	7 US-11-113-424-68	Sequence 68, Appl
42	77.5	3.3	508	7 US-11-082-389-178	Sequence 178, App
43	77	3.3	237	6 US-10-793-626-2994	Sequence 2994, Ap
44	77	3.3	337	6 US-10-793-626-444	Sequence 444, App
45	77	3.3	433	6 US-10-467-657-3214	Sequence 3214, Ap

## ALIGNMENTS

RESULT 1  
US-10-821-234-1140  
; Sequence 1140, Application US/10821234  
; Publication No. US20050255114A1  
; GENERAL INFORMATION:  
; APPLICANT: Labat, Ivan  
; APPLICANT: Stache-Crain, Birgit  
; APPLICANT: Andarmani, Susan  
; APPLICANT: Tang, Y. Tom  
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia  
; FILE REFERENCE: 821A  
; CURRENT APPLICATION NUMBER: US/10/821,234  
; PRIOR FILING DATE: 2004-04-07  
; PRIOR APPLICATION NUMBER: US 60/462,047  
; PRIOR FILING DATE: 2003-04-07  
; NUMBER OF SEQ ID NOS: 1704  
; SOFTWARE: pt\_seq\_genes Version 1.0  
; SEQ ID NO 1140  
; LENGTH: 114  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-821-234-1140

Query Match	7.6%	Score 178.5;	DB 6;	Length 114;
Best Local Similarity	39.8%	Pred No. 2.1e-09;		
Matches	35;	Conservative 15;	Mismatches 35;	Indels 3; Gaps 1;
QY	352	FMMLVILVICIVTCVTIVCTYFLNABDYRWQWTSFLSAASTAIYVVMYSFYFFKTK 411		
Db	11	FVLIILVITCSE---ATILLCYFLHCAEDYHWNQSFSLTSGTAVVFLIYAVHYFFSKLR 67		
QY	412	MYGLFQTSFYFGYMAVFSTALGIMCGAI 439		
Db	68	ITGTASTILYFGYTMWVWVIFLFTGTI 95		

RESULT 2  
US-10-793-626-868  
; Sequence 868, Application US/10793626  
; Publication No. US20050255478A1  
; GENERAL INFORMATION:  
; APPLICANT: KIMMERLY, WILLIAM JOHN  
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS  
; FILE REFERENCE: PUS480US  
; CURRENT APPLICATION NUMBER: US/10/793,626  
; CURRENT FILING DATE: 2004-03-04  
; PRIOR APPLICATION NUMBER: 60/164,258  
; PRIOR FILING DATE: 1999-11-09

```
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 868
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-868

Query Match          4.6%; Score 109; DB 6; Length 468;
Best Local Similarity 20.3%; Pred. No. 0.015;
Matches 72; Conservative 58; Mismatches 130; Indels 94; Gaps 16;

Qy 135 RDLGDEYGMKQVGDVFRPSSHLIFSSLSIGSGCQIFAVS--LIVIVAMIEDLYTERGS 192
Db 29 RYLGHLEFWAVHNNIR-----ALIVAITSLVILVAYMVQLHTNRIY 73

Qy 193 MLSTAIFFVAATSPVNGYFGGSLYAROGRRWIKQMFIGAF-LIPAMVCGTAFPIFIAI 251
Db 74 FILS--FVLMVTVP-----NTIYSETYG--W-----FTGFPSYIPATV--LSLFILFTVV 117
Qy 252 YYHASRAIPFGTMVAVCCICFEVILPLNLVCTILGRNLGQPNPFCRVNAVPRPIPEKK- 310
Db 118 KKIESHD-----TVSEMQLWVLLVSLFGQFFLENLSIANSLLIILIGMVVYFVKRL 170
Qy 311 --WFMEPAVIVCLGGILPFGSIFIEMYFIF-----TSFWAYKIYV 349
Db 171 SYFLIVGFMLSICIGNIIMFLNF---NYFLIKDGLNTHYSISDSHGMIHKAGVTILFKLVP 227
Qy 350 YGFM--MLVLVILCIVT-----CVTI-VCTYFLNNAEDYRW 383
Db 228 YMFNQMIITVSIIVSLVLLKONKSLKMRVVIKIPLLGLLITLPIYKIFVYNQHFEL 287
Qy 384 QWTSFLSAA--STAIVVMYSFYFFKTKMYGLFQTSFYFGYMAVFSALGIM 435
Db 288 YKASFSIAVLNTTICFIYMSIVVVFPMIQORVIRMVNGSFAMASSVLPLL 341

RESULT 3
US-10-793-626-1618
; Sequence 1618, Application US/10793626
; Publication No. US20050258478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793.626
; CURRENT FILING DATE: 2004-03-04
; PRIOR FILING DATE: 60/164,258
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1618
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-1618

Query Match          4.6%; Score 109; DB 6; Length 468;
Best Local Similarity 20.3%; Pred. No. 0.015;
Matches 72; Conservative 58; Mismatches 130; Indels 94; Gaps 16;

Qy 135 RDLGDEYGMKQVGDVFRPSSHLIFSSLSIGSGCQIFAVS--LIVIVAMIEDLYTERGS 192
Db 29 RYLGHLEFWAVHNNIR-----ALIVAITSLVILVAYMVQLHTNRIY 73

Qy 193 MLSTAIFFVAATSPVNGYFGGSLYAROGRRWIKQMFIGAF-LIPAMVCGTAFPIFIAI 251
Db 74 FILS--FVLMVTVP-----NTIYSETYG--W-----FTGFPSYIPATV--LSLFILFTVV 117
Qy 252 YYHASRAIPFGTMVAVCCICFEVILPLNLVCTILGRNLGQPNPFCRVNAVPRPIPEKK- 310
Db 118 KKIESHD-----TVSEMQLWVLLVSLFGQFFLENLSIANSLLIILIGMVVYFVKRL 170
Qy 311 --WFMEPAVIVCLGGILPFGSIFIEMYFIF-----TSFWAYKIYV 349
Db 171 SYFLIVGFMLSICIGNIIMFLNF---NYFLIKDGLNTHYSISDSHGMIHKAGVTILFKLVP 227
Qy 350 YGFM--MLVLVILCIVT-----CVTI-VCTYFLNNAEDYRW 383
Db 228 YMFNQMIITVSIIVSLVLLKONKSLKMRVVIKIPLLGLLITLPIYKIFVYNQHFEL 287
Qy 384 QWTSFLSAA--STAIVVMYSFYFFKTKMYGLFQTSFYFGYMAVFSALGIM 435
Db 288 YKASFSIAVLNTTICFIYMSIVVVFPMIQORVIRMVNGSFAMASSVLPLL 341

RESULT 4
US-11-082-389-320
; Sequence 320, Application US/11082389
; Publication No. US20050244935A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberbauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; TITLE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-131CPCN
; CURRENT APPLICATION NUMBER: US/11/082.389
; CURRENT FILING DATE: 2005-03-16
; PRIOR APPLICATION NUMBER: US 09/603024
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/143262
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: US 60/151281
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930487.4
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19930489.0
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931549.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931550.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932134.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 446
; SEQ ID NO 320
; LENGTH: 368
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-082-389-320

Query Match          4.4%; Score 104; DB 7; Length 368;
Best Local Similarity 20.9%; Pred. No. 0.03;
Matches 62; Conservative 50; Mismatches 118; Indels 66; Gaps 11;

Qy 92 WRSIFNSFMVIFPLVGLVSMILMRTLKQYARYSKSEEDMDRDLGDEYGMKQVGDV 151
Db 65 FFSILSIAVPLVGLVSVITFLA-----SDSTEILNLRVDEVNQY-----VP 106
Qy 152 RPSHPL--IFSSLIGSGCQIFAVSLIVIVAMIEDLYTERGSMLSLTAIFVAATSPVNG 209
```

Db 107 EQSHVNGVIDSIAGS-----AAGQGVAVGVITLMT-----SSAYVRAFGRCAN- 154  
 QY 210 YEGSLYARQGGRRWIKOMFIGAFILPAMVCGTAFPIAFIALYHSHRAIPGTWAVCC 269  
 Db 155 -----AVYGRSEGRTLIKRWMLLFNLALLLG-----IILVSVNLNETLWGIAPIA- 205  
 QY 270 ICFFVILPLNLVGTILGRNLSQP-----NPFRCNVAV-----PRPIPKKWMF 313  
 Db 206 -----EPLHLFNLVSLFSLTDRMPWIWVRFPVIGVLIMFVATLYWAPNAPKFRWL 259  
 QY 314 EPAVIVCLGGLPFGSIFEMFYETSEWAYKIYVYVGFMMVLVILCIVTCVTI 369  
 Db 260 SLGSFLAIVGILLAG---VGLNFYFTLFAAFSSYGAVGSLLAFTALWVFNCLII 312

RESULT 5

US-11-082-389-332  
 ; Sequence 332, Application US/11082389  
 ; Publication No. US20050244935A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Pompejus, Markus  
 ; APPLICANT: Kroger, Burkhard  
 ; APPLICANT: Schroder, Hartwig  
 ; APPLICANT: Zelder, Oskar  
 ; APPLICANT: Haberhauer, Gregor  
 ; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS  
 ; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE  
 ; FILE REFERENCE: BGI-131CPCN  
 ; CURRENT APPLICATION NUMBER: US/11/082,389  
 ; CURRENT FILING DATE: 2005-03-16  
 ; PRIOR APPLICATION NUMBER: US 09/603024  
 ; PRIOR FILING DATE: 2000-06-23  
 ; PRIOR APPLICATION NUMBER: US 60/141031  
 ; PRIOR FILING DATE: 1998-06-25  
 ; PRIOR APPLICATION NUMBER: US 60/143262  
 ; PRIOR FILING DATE: 1999-07-09  
 ; PRIOR APPLICATION NUMBER: US 60/151281  
 ; PRIOR FILING DATE: 1999-08-27  
 ; PRIOR APPLICATION NUMBER: DE 19930487.4  
 ; PRIOR FILING DATE: 1999-07-01  
 ; PRIOR APPLICATION NUMBER: DE 19930489.0  
 ; PRIOR FILING DATE: 1999-07-01  
 ; PRIOR APPLICATION NUMBER: DE 19931549.3  
 ; PRIOR FILING DATE: 1999-07-08  
 ; PRIOR APPLICATION NUMBER: DE 19931550.7  
 ; PRIOR FILING DATE: 1999-07-08  
 ; PRIOR APPLICATION NUMBER: DE 19932134.5  
 ; PRIOR FILING DATE: 1999-07-09  
 ; PRIOR APPLICATION NUMBER: DE 19941379.7  
 ; PRIOR FILING DATE: 1999-08-31  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 446  
 ; SEQ ID NO 332  
 ; LENGTH: 433  
 ; TYPE: PRT  
 ; ORGANISM: Corynebacterium glutamicum  
 US-11-082-389-332

Query Match 4.4%; Score 102.5; DB 7; Length 433;  
 Best Local Similarity 19.5%; Pred. No. 0.049;  
 Matches 70; Conservative 53; Mismatches 135; Indels 101; Gaps 17;  
 QY 158 LIFSLGSGGQIFAVSLIVIVAMI-EDLYTERGSMSTAIFVYAATSPVNGYF--GG 213  
 Db 19 VLLGSLGSLVSEVDFVYGTVAALFNKMYPPSGNEFLSTILAYASF-LTFFFRP 77  
 QY 214 SLYARQG---GRRWIKOMFIGAFILPAMVCGTAFPIAFIAI----- 251  
 Db 78 VIFAHIGRIGRK--KTLFITLMLMGCGTVAIGLLPDYNAIGIWAIPILLMFLRILOIGIGI 135  
 QY 252 -----YYHASR-----AIP-----FGTMVAVCCICFFVILP----- 277

Db 136 GGEWGALLAYEAPKKQKGLYGAVPQMGISGLMLLAAGVISLILTMPEDQFLTGWGRI 195  
 QY 278 -----LNLVGTILGRNLSQPNPFCRV-----NAVPRPIPE---KKWFMPAVIVCLGG 323  
 Db 196 PFVGSILLVFTGLIRNGLDETPEFK-RIRDSGQGVKMPLEKVLTKYW---PAVLVSIGA 251  
 QY 324 -ILPFGSIFEMFYETSEWAYKIYVYVGFMMVLVILCIVTCVTIIVCTYF--LLNABD 380  
 Db 252 KAAETGPPYI-----FGTYIVAYATNFIIRDNI VLLAVACAALVATIMPLFGSPS 303  
 QY 381 YRWQWTSFLSAASTAIYVMTSYFYYPFKTKMYGLFQTSFYFGYMANVSTALGIMCGAI 439  
 Db 304 DRNRAVLRYRICASATIVLIPYVYLVLNTGSIWALFITV-----IGEGILWGSV 353

RESULT 6

US-11-119-683-1  
 ; Sequence 1, Application US/11119683  
 ; Publication No. US20050262598A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gaxiola, Roberto A.  
 ; APPLICANT: Fink, Gerald R.  
 ; APPLICANT: Alper, Seth L.  
 ; TITLE OF INVENTION: Proton Transporters And Uses In Plants  
 ; FILE REFERENCE: 0399.2004-002  
 ; CURRENT APPLICATION NUMBER: US/11/119,683  
 ; CURRENT FILING DATE: 2005-05-02  
 ; PRIOR APPLICATION NUMBER: US/09/834,998  
 ; PRIOR FILING DATE: 2001-04-13  
 ; PRIOR APPLICATION NUMBER: US 09/644,039  
 ; PRIOR FILING DATE: 2000-08-22  
 ; PRIOR APPLICATION NUMBER: US 60/164,808  
 ; PRIOR FILING DATE: 1999-11-10  
 ; NUMBER OF SEQ ID NOS: 5  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 1  
 ; LENGTH: 538  
 ; TYPE: PRT  
 ; ORGANISM: Artificial Sequence  
 ; FEATURE:  
 ; OTHER INFORMATION: Arabidopsis - ACNhx1  
 US-11-119-683-1

Query Match 4.0%; Score 94.5; DB 7; Length 538;  
 Best Local Similarity 20.2%; Pred. No. 0.32;  
 Matches 73; Conservative 47; Mismatches 132; Indels 109; Gaps 16;  
 QY 74 EDRFDKYLDPSPF-----FQHRHWFSPNSPMVIFVLGLVSMILMRT-LRKDYARYSKE 127  
 Db 79 EDLFFVILLPPIIFNAGFQVKKQF--PRNF-VTITLFGAVGTIISCTIISLGVTFQFFK- 134  
 QY 128 EEMDDMDRLDGEYGVKQVHG-----DYFRPSSHPLIFSSLLGSCQIFAVSLIVII 179  
 Db 135 -KLDIGTFDLGDYLAIGAFAATSDVCTQLVNQDETELLYSLVFGEGVANDATSVVVFN 193  
 QY 180 VAMIEDL-----YTERGSMSTAIFVY-----AATSPVNGYFGGSLY-ARQGGRRWIKQ 227  
 Db 194 AIQSFDLTHLNHEAAPHLLGNFLYLFLSTLLGATGLISAYVKKLYFGRHSTDEVAL 253  
 QY 228 MFIQAFILPAM-----VCG--TAPFINFIAIY-----HASRAIPF----- 261  
 Db 254 MMLAYLSYMLAELFDLSGLTVFCGIVMSHYTHWNVNVTSSRITTKTKHTFATLSLAETFF 313  
 QY 262 -----GTMVAVCCICFFVIL-----PLNLVGTILGRNLSG 291  
 Db 314 IFLYVGMALDIDKWRVSVDTPGTSIAVSSILMGLVMVGRAAFVFPPLSLNLAKKNOSE 373  
 QY 292 QPNPFCRV-----NAVPRPIPEKKW-----FMEPAVIVCLGGLIPFGS 329  
 Db 374 KINFNMQVVIWWSGLMRCAVSMALAYNKFTTAGHTDVRGNAIMTSTITVCLFSIVVFGM 433  
 QY 330 I 330

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Db 434 L 434
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 1389
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1389

Query Match 4.0%; Score 93.5; DB 6; Length 407;
Best Local Similarity 21.5%; Pred. No. 0.28; Mismatches 32; Indels 117; Gaps 15;
Matches 59; Conservative 32; Mismatches 67; Indels 117; Gaps 15;

Qy 224 WIKOMFIGAFLIPAMVCGTAFFINFAIYYHASRAIPFGTMVAVCCICFFVI-----275
Db 161 WTK--FCGA-LRPLKIVWGIFFI-----LVAL-----LFVISLFLSLND 196
Qy 276 LPLNLVG-----TILGRNLGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSI 330
Db 197 KALHSAGIDSGFIIFGANLSNPLNM-----LPLQLTVFPFLDYI 235
Qy 331 FIE---MYIFTS-----FW--AYKI-----YYVYGFMMVLVILCIIVTVC 366
Db 236 LITIIIMYIFTSWAGIRNIGIWFIRLYKIRGRTRPOALLFLCMLLIVLHTSYMI 295
Qy 367 VTIVCTYFLNADY-----RWQWTSFLSAAS-----TAIVYVYMSFY 404
Db 296 YSLAPQVVMYGSQNYLIETNITSDNHKGNSTLSPVKRCDADAPEDQCTVTRTYLFLHKFW 355
Qy 405 YYFFKTMVGLFOTSEYFG---YMAVESTALGIMC 436
Db 356 F-----FSAAYYFGNWAFLGVFLIGLIVSC 380

RESULT 9
US-10-689-742-164
; Sequence 164, Application US/10689742
; Publication No. US20050250180A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M
; APPLICANT: LaVallie, Edward R
; APPLICANT: Racie, Lisa A
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Spaulding, Vikki
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000091.10
; CURRENT APPLICATION NUMBER: US/10/689,742
; CURRENT FILING DATE: 2003-10-22
; PRIOR APPLICATION NUMBER: 09/746,783
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 164
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-742-164

Query Match 4.0%; Score 93.5; DB 6; Length 464;
Best Local Similarity 21.5%; Pred. No. 0.33;
Matches 59; Conservative 32; Mismatches 67; Indels 117; Gaps 15;

Qy 224 WIKOMFIGAFLIPAMVCGTAFFINFAIYYHASRAIPFGTMVAVCCICFFVI-----275
Db 221 WTK--FCGA-LRPLKIVWGIFFI-----LVAL-----LFVISLFLSLND 256
Qy 276 LPLNLVG-----TILGRNLGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSI 330
Db 257 KALHSAGIDSGFIIFGANLSNPLNM-----LPLQLTVFPFLDYI 295
Qy 331 FIE---MYIFTS-----FW--AYKI-----YYVYGFMMVLVILCIIVTVC 366

Db 434 L 434
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 1389
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1389

Query Match 4.0%; Score 94; DB 7; Length 553;
Best Local Similarity 16.2%; Pred. No. 0.37;
Matches 59; Conservative 49; Mismatches 107; Indels 150; Gaps 12;

Qy 43 NLTSEGVKLVNPTKIQMSYSVKWKKSDVKPEDRFDKYLDPSPFOHRIHWFSPNSPMV 102
Db 249 NKAHSGRIKISLDNDISIRECKDHVS-----GSIQKNTHYMMIFDAFVIL 294
Qy 103 IFLYGLV-----SMILMRTLKDYA-----RYSKEEMDDMDRLDGLDEYGMKQVHGDVFRP 153
Db 295 TCLVSLILCIRSVIRGLQLOQEFNFFLLHYKKVSVSDQMEFVN---GW-----341
Qy 154 SSHPLFSSLIGSCQIFAVSLIIVIAMIEDLYTERGSMSTAIIFYAATSPVNGYFGG 213
Db 342 -----YIMIIISDILTIIGSILKMBIQAKSLTS-----369
Qy 214 SLYARQGRRWIKQMFICAFILPAMVCGTA-----FFINFIAIYYHASRAIP 260
Db 370 -----YDVCISILIGTSMVLVGLVIRYLGFFAKYNLLILTLQAALP 410
Qy 261 FGTMVAVC-----CICFFVIL-----PLNLVGTILGRNLGQPNFPCRVNAVPR 304
Db 411 NVIRFCCAAIYLGCFCEGWIVLGPYHDKFRSLNMVSECLFSLINGDDMF-----461
Qy 305 PIPEKKWFMEPAVIVCLGGILPFGSIFIEMYIFTSFWAYKIYYVYGFMMML-VLVILCI 363
Db 462 -----ATFAKMQKSYLV-----WLFSSRIYLSFISLFIWMILSLF 497
Qy 364 TVCVT 368
Db 498 IALIT 502

RESULT 8
US-10-821-234-1389
; Sequence 1389, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
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Db 296 LITIIIMYFIFSMAGIRNIGIWFFWIRLYKIRRGTRPQALLFLCMILLIVLHTSYMI 355
QY 367 VTIVCTYFLNADY-----RWQWTSLSAAS-----TAYVVMYSFY 404
Db 356 YSLAQYVMYGSQVLIENITSDNHKGNSTLSPKRCADAPEDQCTVTRTYLFLHFW 415
QY 405 YFFKTKMYGLFQTSFYFG---YMAVFSTALGIMC 436
Db 416 F-----FSAAYFCGNAFLGVFLGLIVSC 440

RESULT 10
US-10-485-517-344
; Sequence 344, Application US/10485517
; Publication No. US20050256299A1
; GENERAL INFORMATION:
; APPLICANT: University of Sheffield
; APPLICANT: Biosynexus Incorporated
; APPLICANT: Foster, Simon
; APPLICANT: Mond, James
; TITLE OF INVENTION: Antigenic Polypeptides
; FILE REFERENCE: P100629WO
; CURRENT APPLICATION NUMBER: US/10/485,517
; CURRENT FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: GB 0118825.9
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: GB 0200349.9
; PRIOR FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 424
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 344
; LENGTH: 506
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
; US-10-485-517-344

Query Match 3.9%; Score 90.5; DB 6; Length 506;
Best Local Similarity 18.6%; Pred. No. 0.67;
Matches 69; Conservative 52; Mismatches 125; Indels 125; Gaps 15;

QY 125 SKEEMDDMDRLDGEYGNKQVHGDV-----FRPSHPLIFSLIGSGCQIPAV 173
Db 17 NKQIDRGDLKQNLSEKFWATAYGSCIGWAFILPGDWIKQSGPIAAS-----IGIVIGAL 72
QY 174 SLIVIV---AMIEDLYTERG---SMLSTAIFV-----YAATSPVNG----- 209
Db 73 LMILIAVSGALVERFPVSGGAFASFSGRYVSFFSFWLTFGVCVWALNATAFSL 132
QY 210 -----YFGSLYARQGRRWIKQMFIGAPLIAMVCGTAFFINFIAIYVHASRAIPF 261
Db 133 VKFLLPDVLNNGKLYTIAGWDVYITEIIATVLLVFLVLT-----IRGASVS 180
QY 262 GTMAVACCICPFVILPLNLVGTILGRNLSGQNPFCRVNAVPRPIPEKKWFMEPAVIVCL 321
Db 181 GSOQYFVCVAMVIVLLMFFGSGFNGFALE-----NLQPLAEPKGLVSIWIV-- 231
QY 322 GGLLPFGSIFTEMYFIFTSFWAYKIYVYVGFNMLVLVILCVTCVTCVTCYFLNADY 381
Db 232 -SVAP-----WAY-----VGFNDIP-----QTABEF 251
QY 382 RWQWT-----SFLSAASTAIYVMYSFYVFPKTKMYG-----LFQTSFYFGYMA 426
Db 252 NFAPNKTFLIVSLLAASLTIVVMILYTGWLSHQSLNQLWLTGAVTQTA--FGYIG 309
QY 427 VFSTALGIMCG 437
Db 310 LGVLAIAIMMG 320

RESULT 11
US-10-793-626-368
; Sequence 368, Application US/10793626

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; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMBERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P034800S
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 368
; LENGTH: 412
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-368

Query Match 3.8%; Score 89.5; DB 6; Length 412;
Best Local Similarity 21.1%; Pred. No. 0.63;
Matches 59; Conservative 42; Mismatches 83; Indels 95; Gaps 14;

QY 95 IFNSFMVIFLVGLVSMILMRTLRKDYARYSKEEEMDDMDRLDGEYGNKQVHGDVFRPS 154
Db 196 ILGSLIIVAVLFAVALVLCVMEH--YSQYA-----DNAEPVGM-----ALRES 237
QY 155 SHPLIFSLIGSGCQIPAVSLIIVAMIEDLYTERGSMSTAIYVYATSPVNGYFGS 214
Db 238 GRGII-----AAIVQAISVIGMPTALI-----GNMLAGSRLYS----- 271
QY 215 LYARQG-GRRWIKOM-----FIGAPLIAMVCGTAFFINFIAIYVHASRAIPFGTMV 265
Db 272 -FGRDGLLPWSLQNLHKLPLNRALVILTIIGWVIGSFPFAFLA-----QLISAGTLV 324
QY 266 AVCCICPFVILPLNLVGTILGRNLSGQNPFCRVNAVPRPIPEKKWFMEPAVIVCLGGL 325
Db 325 AP-----MFVSLAMYRLRKRECKDL-----PKPEFKLPLYP-----IL 357
QY 326 PFGSIFTEMYFIFTSFWAY-----KIYVYVGFNMLVLVIL 360
Db 358 P-----AITFILVLLVFWGLSFEAKLYTLIWFIVGIIIVL 392

RESULT 12
US-10-467-657-2242
; Sequence 2242, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON Spa
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2242
; LENGTH: 275
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2242

Query Match 3.7%; Score 88; DB 6; Length 275;
Best Local Similarity 22.2%; Pred. No. 0.52;
Matches 37; Conservative 26; Mismatches 59; Indels 46; Gaps 8;

```



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Db      111 LSPLFIVLGTLLFKRE-----LPLRTDLIAFAVSLGVLFAITKGNHIEL 155
Qy      258 AIPFGTMV-----AVCCICFFVLPLNLV-----GTILGRNLSGQNPFCRNVAV 302
Db      156 AIPMDALVWGILSGVTAALYVVLPRKIVAENSPPVILGWGTLIAGILEN-----L 205
Qy      303 PRPIPEKKWF---MEPAVIVCLGGILPFGSIFIEMYFIETSFWAYKIYVYVGFMMVLV 358
Db      206 YHPI-----WIGAPKITPILVTSIGAIVLIGTIFAFSLHLSLOYA-----PSAVVS 252
Qy      359 ILCIVTVCTVITVYFLNADYRWQWTSFLSAASTAIYVVMYSFY 404
Db      253 IVDVQPVVTFVLSIIFLGLO---VTWVEILGSLVIVAIYILQQY 295
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## RESULT 15

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US-10-793-626-504
; Sequence 504, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PU3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 504
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-504
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Query Match      3.7%; Score 86; DB 6; Length 346;
Best Local Similarity 20.3%; Pred. No. 1;
Matches 68; Conservative 54; Mismatches 123; Indels 90; Gaps 16;

Qy      149 DVERPSSHPL-----AIFVYAATSPVNGYFGSLYAROGGRRWIKQMFICAFILIPAMV 239
Db      24  EVFLMSSYCLLVIGTKIQLQETIKYILNVVSSFFVNGVAVLYSVVGTNLNAHISERL 83
Qy      192 SMLST-----AIFVYAATSPVNGYFGSLYAROGGRRWIKQMFICAFILIPAMV 239
Db      84  SOLSVHDSGLNVIVFILFVFATKA---GVF--PMYV-----WLP---GAYVAPPVA 128
Qy      240 CGTAP--FINFIAIYYHA-SRAIPGTWAVCCICFFVILPLNLVGTILGRNLSGQNPFP 296
Db      129 IITFFGALLTKGVVYAIARTLSLFFNNTVS---FSHYVILFLALITIFG-----175
Qy      297 CRVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSIFIEMYFIETSFWAYKIYVYVGFMMVLV 356
Db      176 C-IGAIA-----YDTKKIILYINIAVGVILVGIAMNMSGMTCAIYYTLHDMLVK 226
Qy      357 LVILCIVTVCTVITVCT-----YFLNADYRWQWTSFLSAASTAIYVVMYSFY 404
Db      227 ASLFLILIGVMYKITKTDLRHFGGLIKGYPILG-----WTFIAALSLAGIPFPFGFY 279
Qy      405 YFFKTRMYGLFQTSFYFGYNAVFTALGIMCGAI 439
Db      280 GKFIYIVR--ATPEKGYLSGIIVLLSSILVLYSVI 312
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Search completed: December 7, 2005, 13:02:15  
Job time : 8.05517 secs

**This Page Blank (uspto)**

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: December 7, 2005, 12:30:31 ; Search time 28.5458 seconds  
(without alignments)  
1271.452 Million cell updates/sec

Title: US-09-319-724B-1  
Perfect score: 2347  
Sequence: 1 MYIDDLPIWGIVEADENGE.....FYFGYMAVFSTALGIMCGAI 439

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
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2: /cgn2\_6/prodata/1/aaa/6 COMB.pep.\*  
3: /cgn2\_6/prodata/1/aaa/H COMB.pep.\*  
4: /cgn2\_6/prodata/1/aaa/PCUTUS COMB.pep.\*  
5: /cgn2\_6/prodata/1/aaa/RE COMB.pep.\*  
6: /cgn2\_6/prodata/1/aaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2347	100.0	579	2	US-09-786-681A-4
2	2347	100.0	582	2	US-09-786-681A-2
3	1107	47.2	257	2	US-09-270-767-32308
4	842.5	35.9	625	2	US-08-959-004-10
5	746.5	31.8	663	2	US-08-959-004-5
6	746.5	31.8	676	2	US-09-949-016-9494
7	741.5	31.6	573	2	US-10-104-047-3669
8	603	25.7	667	2	US-08-959-004-11
9	546	23.3	133	2	US-09-270-767-44213
10	546	23.3	133	2	US-09-270-767-59636
11	419	17.9	241	2	US-09-248-796A-20311
12	364	15.5	87	2	US-09-513-999C-7785
13	159	6.8	218	2	US-09-270-767-46281
14	135	5.8	111	2	US-09-513-999C-7579
15	127	5.4	574	2	US-09-107-433-3877
16	127	5.4	605	2	US-09-583-110-4773
17	120.5	5.1	513	2	US-09-543-681A-8279
18	118.5	5.0	496	2	US-09-134-001C-3703
19	115	4.9	502	2	US-09-328-352-6968
20	109	4.6	468	2	US-09-710-279-868
21	109	4.6	468	2	US-09-710-279-1618
22	108.5	4.6	584	2	US-09-693-746-22
23	107.5	4.6	408	1	US-08-742-440A-6
24	107	4.6	353	2	US-09-576-160B-6
25	106	4.5	237	2	US-09-134-001C-3057
26	106	4.5	1681	2	US-09-920-653B-3
27	105	4.5	504	2	US-09-489-039A-8489

28	104.5	4.5	445	2	US-09-605-703B-72	Sequence 72, Appl
29	104	4.4	511	2	US-09-107-532A-6112	Sequence 6112, Ap
30	103	4.4	822	2	US-09-824-734-3	Sequence 3, Appli
31	102.5	4.4	402	2	US-09-270-767-35644	Sequence 35644, A
32	102.5	4.4	402	2	US-09-270-767-50861	Sequence 50861, A
33	101.5	4.3	2938	4	PCT-US94-00198-3	Sequence 3, Appli
34	101.5	4.3	3092	2	US-09-487-558B-172	Sequence 172, App
35	101	4.3	453	1	US-08-439-131A-5	Sequence 5, Appli
36	101	4.3	453	1	US-08-440-674-4	Sequence 4, Appli
37	101	4.3	453	2	US-08-879-337-6	Sequence 6, Appli
38	98.5	4.2	265	2	US-09-134-000C-5847	Sequence 5847, Ap
39	98.5	4.2	305	2	US-09-583-110-3512	Sequence 3512, Ap
40	97.5	4.2	436	2	US-09-949-016-11448	Sequence 11448, A
41	97.5	4.2	470	1	US-08-724-394A-10	Sequence 10, Appli
42	97	4.1	549	2	US-09-115-150-4	Sequence 4, Appli
43	97	4.1	592	2	US-09-949-016-6953	Sequence 6953, Ap
44	97	4.1	609	2	US-09-949-016-8961	Sequence 8961, Ap
45	97	4.1	609	2	US-09-949-016-8962	Sequence 8962, Ap

ALIGNMENTS

RESULT 1  
US-09-786-681A-4  
; Sequence 4, Application US/097866681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING Y  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786,681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-786-681A-4

Query Match 100.0%; Score 2347; DB 2; Length 579;  
Best Local Similarity 100.0%; Pred. No. 9.4e-227;  
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MYIDDLPIWGLVGBADENGEDYI	LWYTKKLEIGFNGNRIVDVNLTSEBKV	60
Db	122	MYIDDLPIWGLVGBADENGEDYI	LWYTKKLEIGFNGNRIVDVNLTSEBKV	181
Qy	61	SYSVKWKKSDVKFDRDPDKYL	DPSPFQHRHWFESFNSFMMVIFLVGLVSMILMRTL	120
Db	182	SYSVKWKKSDVKFDRDPDKYL	DPSPFQHRHWFESFNSFMMVIFLVGLVSMILMRTL	241
Qy	121	YARYSKEEEMDDMDRLDGDY	GVKQVHGVDFRPPSSHPLIFSSLIGSGCQIFAVSL	180
Db	242	YARYSKEEEMDDMDRLDGDY	GVKQVHGVDFRPPSSHPLIFSSLIGSGCQIFAVSL	301
Qy	181	AMIEDLYTERGSMLSTAIFV	YAAATSPVNGYFGSGLYARQGGRRWIKQMPFAGFL	240
Db	302	AMIEDLYTERGSMLSTAIFV	YAAATSPVNGYFGSGLYARQGGRRWIKQMPFAGFL	361
Qy	241	GTAFINFIAYYHASRAIPGT	WVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN	300
Db	362	GTAFINFIAYYHASRAIPGT	WVAVCCICFFVILPLNLVGTILGRNLSGQNPFCRVN	421
Qy	301	AVPRPIPEKKWFMPEPAVIV	CLGGLPFGSIFTEFWAYKIYYVYGFPMMLVLVL	360
Db	422	AVPRPIPEKKWFMPEPAVIV	CLGGLPFGSIFTEFWAYKIYYVYGFPMMLVLVL	481
Qy	361	CIVTVCTVITVCTYFLNNAED	YRWQMTSPLSAASTAIYVMYSFYFFPKTKMYGLFQTSF	420
Db	482	CIVTVCTVITVCTYFLNNAED	YRWQMTSPLSAASTAIYVMYSFYFFPKTKMYGLFQTSF	541

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QY 421 YFGYMAVFSTALGIMCGAI 439
DB 542 YFGYMAVFSTALGIMCGAI 560

RESULT 2
US-09-786-681A-2
; Sequence 2, Application US/09786681A
; Patent No. 6692926
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786.681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-786-681A-2

Query Match 100.0%; Score 2347; DB 2; Length 582;
Best Local Similarity 100.0%; Pred. No. 9.4e-227;
Matches 439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYIDLPIWIGVGEADENGEDYIWTYKLLRIGFNGNRIVDVNLTSGKVKLVPNTKIOM 60
DB 125 MYIDLPIWIGVGEADENGEDYIWTYKLLRIGFNGNRIVDVNLTSGKVKLVPNTKIOM 184

QY 61 SYSVKWKKSDVKFEDRDKYLDPSFFQHRHWFISFNSFMVIFLVGLVSMILMRTLKRD 120
DB 185 SYSVKWKKSDVKFEDRDKYLDPSFFQHRHWFISFNSFMVIFLVGLVSMILMRTLKRD 244

QY 121 YARYSKEEEMDDMDRLDGEYGWQVGDVFRPSSHPLIFSSLGSGCQIPAVSLIIV 180
DB 245 YARYSKEEEMDDMDRLDGEYGWQVGDVFRPSSHPLIFSSLGSGCQIPAVSLIIV 304

QY 181 AMIEDLYTERGSMSTALFVVAATSPVNGYFGGSLYARQGRRWIKOMFAGLIPAMVC 240
DB 305 AMIEDLYTERGSMSTALFVVAATSPVNGYFGGSLYARQGRRWIKOMFAGLIPAMVC 364

QY 241 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 300
DB 365 GTAFFINFIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVN 424

QY 301 AVPRPIPEKKWFMPEPAVIVCLGGLPFGSIPIFYFTSPWAYKIYVYVGFMMMLVLVIL 360
DB 425 AVPRPIPEKKWFMPEPAVIVCLGGLPFGSIPIFYFTSPWAYKIYVYVGFMMMLVLVIL 484

QY 361 CIVTVCTIVCTYFLLNAEDRWQWTSFLSAASAIYVYVYFYYFFKTKMYGLFQTSF 420
DB 485 CIVTVCTIVCTYFLLNAEDRWQWTSFLSAASAIYVYVYFYYFFKTKMYGLFQTSF 544

QY 421 YFGYMAVFSTALGIMCGAI 439
DB 545 YFGYMAVFSTALGIMCGAI 563

RESULT 3
US-09-270-767-32308
; Sequence 32308, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270.767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32308
; LENGTH: 257
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-32308

Query Match 47.2%; Score 1107; DB 2; Length 257;
Best Local Similarity 78.2%; Pred. No. 8.4e-103;
Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;

QY 62 YSVKWKSDVKFEDRDKYLDPSFFQHRHWFISFNSFMVIFLVGLVSMILMRTLKDY 121
DB 1 YEVNWKSKVEKFRDKYLDPSFFQHRHWFISFNSFMVIFLVGLVSMILMRTLKDY 60

QY 122 ARYSKEEEMDDMDRLDGEYGWQVGDVFRPSSHPLIFSSLGSGCQIPAVSLIIV 181
DB 61 ARYSKEEEMDDMDRLDGEYGWQVGDVFRPSSHPLIFSSLGSGCQIPAVSLIIV 120

QY 182 MIEDLYTERGSMSTALFVVAATSPVNGYFGGSLYARQGRRWIKOMFAGLIPAMVC 241
DB 121 IVGELYTERGSMSTALFVVAATSPVNGYFGGSLYARQGRRWIKOMFAGLIPAMVC 180

QY 242 TAPFINEIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNA 301
DB 181 TAPFINEIAIYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNA 240

QY 302 VPRPIPEKKWFMPEPAVI 318
DB 241 VPRPIPEKKWFMPELII 257

RESULT 4
US-08-959-004-10
; Sequence 10, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:

```

```
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 625 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 1665777
;
US-08-959-004-10

Query Match      35.9%; Score 842.5; DB 2; Length 625;
Best Local Similarity 39.9%; Pred. No. 9.6e-76;
Matches 175; Conservative 83; Mismatches 158; Indels 23; Gaps 6;

QY 17 ENGEDYLLWTK--KLEIGFNGNRIVDNLVTSKGLVLPNT-----KIQMS 61
DB 175 EMEDEQHYRVRVFEVYIPOSIRLEDLKADKSSCTLPEGTNSSPQIDPTKENQLYFT 234
QY 62 YSVKWKSDVKPEDRFKLDPSFFQHRHWFSEIENSFMWVFLVGLVSMILMRLTKDY 121
DB 235 YSVHWEESDIKWSRWDTYLTMSDVQ--IHWFSIINSVVVFFLSGILSMIIRLRDI 292
QY 122 ARYSKEEMDDMRDLGDEYQKQVHGVDFRPSHPLIFSSLLGSGCOIFAVSLVITVA 181
DB 293 ANYNKEDDIE---DTMEESGKLVHGVDFRPPQVPMILSSLLSGSIQLFCMILIVFA 348
QY 182 MIEDLY--TERGSMSTAFVYAATSPVNGYFGSLYARQGGRRWIKQMFIGNFLPAMVC 240
DB 349 MLGMLSPSSGALMTTACFLFMFMGVFGGSAGRLYRTLKGRWKKGAFCTATLYPGVVF 408
QY 241 GTAFINFIAYIHASRAIPFGTMAVCCICFEVLPLNVLVTILGRNLSGQNPPCRNV 300
DB 409 GICFVLCFINKSSGAVPFTWALLCMFGISLPLVLYGYFGFKQPYDN--PVRTN 467
QY 301 AVPRIPKQWMEPAVIVCLGILPFGSIFIEYMFIFTSFWAYKIYVYVGFMMMLVLVL 360
DB 468 QIPRQIPQRYWYNNRFVGLMAGILPFGAMFIELFFISAIWENQFYFLFGFLVFLVIL 527
QY 361 CIVTVCTVICTYFLNADRWQWTSFLSAASTAIYVYMYSFYFFPKTMVGLFQTSF 420
DB 528 VVSCQISIVMYFYOLCAEDYRWWRNRFVLSGGSAPYVLVVAIFYVFNKLDIVEFIPSL 587
QY 421 YFGYMAVFSTALGIMCGAI 439
DB 588 YFGYALMVLSPWLLTGII 606

RESULT 5
US-08-959-004-5
; Sequence 5, Application US/08959004
; Patent No. 6197543
;
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
;
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
;
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
;
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
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; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: ADRETUT06
; CLONE: 2822412
;
US-08-959-004-5

Query Match      31.8%; Score 746.5; DB 2; Length 663;
Best Local Similarity 34.2%; Pred. No. 4.5e-66;
Matches 155; Conservative 93; Mismatches 160; Indels 45; Gaps 9;

QY 20 EDYLLWT-----YKLEIGFNGNRIV-----DNLVTSKGLV 48
DB 204 DTFTIFNVDIKIYHVVTGSMGARLVAAKLEPKSFKHTHIDKDCGPPMDISNKASG 263
QY 49 KVLVLPNTKIQMSYSVKWKSD-VKFDPRFDKLDPSFFQHRHWFSEIENSFMWVFLV 107
DB 264 EI-----KIATYVSVEEDDKIRWASRWYVILESMPTH-IQWFSIMNSLIVFLSG 316
QY 108 LVSMILMRLTKDVARYSKEEMDDMRDLGDEYQKQVHGVDFRPSHPLIFSSLLGSG 167
DB 317 MVAMIMLRTLHKDIARYN--QMDSTE-DAQEEFGKLVHGDIFRPPRKGLLSVFLSG 372
QY 168 COIFAVSLVITVAIEDLY--TERGSMSTAFVYAATSPVNGYFGSLYARQGGRRWIK 226
DB 373 TQILIMTFVLFPACLGFLSPANRGALMTCAVILWLLGTGAGVVAARFYKSGEKKWT 432
QY 227 QMFIGAFLIPAMVCGTAFINFIAYIHASRAIPFGTMAVCCICFFVILPLNVLVTILG 286
DB 433 NVLLTSFLCPGIVFADFFIMNLILWEGSSAAIPFGLVALALWFCISVPLTFIGAYFG 492
QY 287 RNLGQNPFCRVNAPRPDPEKQWMEPAVIVCLGILPFGSIFIEYMFIFTSFWAYKI 346
DB 493 FKQNAIEH-PVRTNQIPRQIPQSFYTKPLPGIIMGILPFGCIPFQILFNLNSIWSHQ 551
QY 347 YVYVGFMMMLVLVILCVTCVITVCTYFLNADRWQWTSFLSAASTAIYVYMYSFY 406
DB 552 YVYVGFMMMLVLVILCVTCVITVCTYFLNADRWQWTSFLSAASTAIYVYMYSFY 406
QY 407 FFKTKMYGLFQTSFYFGYMAVFSTALGIMCGAI 439
DB 612 FSKLQITGTASTILYFGYTMIMVLVILFLLFTGTI 644

RESULT 6
US-09-949-016-9494
; Sequence 9494, Application US/09949016
; Patent No. 6812339
;
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
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; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9494
; LENGTH: 676
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-9494

Query Match      31.8%; Score 746.5; DB 2; Length 676;
Best Local Similarity 34.2%; Pred. No. 4.6e-66;
Matches 155; Conservative 93; Mismatches 160; Indels 45; Gaps 9;

Qy 20 EDDYLMT-----YKKLEIGFNGNRIV-----DYNLTSEG 48
Db 217 DTFYFNHVDIKIYHVVTGSMGARLVAAKLEPKSFKHTHIDKPCDSCGPPMDISNKASG 276
Qy 49 KVLVPNTKIQMSYSVKWKSD-VKFEDRFDKYLDPSPFFQHRHWFISFNSFMVIFLVG 107
Db 277 EI-----KIAYTYSVSFEEDDKIRWASRDYIILSPHPTH-IQWFSIMNSLVIVFLSG 329
Qy 108 LVSMILMRLTKDYARYSKSEEMDDMDRLDGEYGVKQVHGDVPRSPSHPLIFSSLIGSG 167
Db 330 MVAMIMLRLTKHDIARYN---QMDSTE-DAEEBFGKLVHGDIFRPPKGMLLSVFLSG 385
Qy 168 CQIFAVSLIIVIAMIEDLY-TERGSMLSLTAIFYAATSPVNGYFGGSLYARQGRWIK 226
Db 386 TQILIMFTVTLFFACLGFLSPANRGALMTCAVWLVLGTPAGYVAARFYKSGFGEKWK 445
Qy 227 QMFIGAFILPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILG 286
Db 446 NVLITSPFCPGIVFADFFIMNLILWBGSSAAIPFGTLVAILALWFCISVPLTFTIGAYFG 505
Qy 287 RNLGQPNFPCRVNAPRPIPEKKWFMEPAVIVCLGILPFGSIFIEMYFTFTSFYWKI 346
Db 506 FKNAIEH-PVRTNQIPRQIPEQSFYTKPLPGIIMGILPFGCIFIQLFFILNSIWSHOM 564
Qy 347 YVYVGFMMVLVLIVITCVTVCTVFLNADRYMQWTSFLSAASTAIYVVMYSFYV 406
Db 565 YVYVGFMMVLVLIVITCVTVCTVFLNADRYMQWTSFLSAASTAIYVVMYSFYV 624
Qy 407 FFKTKMYGLFQTSFYFGYMAVFSALGIMCGAI 439
Db 625 FSKLQITGTASTIYFGYTMIMVLIFLFTGTI 657

RESULT 7
US-10-104-047-3669
; Sequence 3669, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; TITLE OF INVENTION: HELIX RESEARCH INSTITUTE
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 3669
; LENGTH: 573
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-104-047-3669

Query Match      31.6%; Score 741.5; DB 2; Length 573;
Best Local Similarity 34.0%; Pred. No. 1.2e-65;
Matches 154; Conservative 93; Mismatches 161; Indels 45; Gaps 9;

Qy 20 EDDYLMT-----YKKLEIGFNGNRIV-----DYNLTSEG 48
Db 114 DTFYFNHVDIKIYHVVTGSMGARLVAAKLEPKSFKHTHIDKPCDSCGPPMDISNKASG 173
Qy 49 KVLVPNTKIQMSYSVKWKSD-VKFEDRFDKYLDPSPFFQHRHWFISFNSFMVIFLVG 107
Db 174 EI-----KIAYTYSVSFEEDDKIRWASRDYIILSPHPTH-IQWFSIMNSLVIVFLSG 226
Qy 108 LVSMILMRLTKDYARYSKSEEMDDMDRLDGEYGVKQVHGDVPRSPSHPLIFSSLIGSG 167
Db 227 MVAMIMLRLTKHDIARYN---QMDSTE-DAEEBFGKLVHGDIFRPPKGMLLSVFLSG 282
Qy 168 CQIFAVSLIIVIAMIEDLY-TERGSMLSLTAIFYAATSPVNGYFGGSLYARQGRWIK 226
Db 283 TQILIMFTVTLFFACLGFLSPANRGALMTCAVWLVLGTPAGYVAARFYKSGFGEKWK 342
Qy 227 QMFIGAFILPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFFVILPLNLVGTILG 286
Db 343 NVLITSPFCPGIVFADFFIMNLILWBGSSAAIPFGTLVAILALWFCISVPLTFTIGAYFG 402
Qy 287 RNLGQPNFPCRVNAPRPIPEKKWFMEPAVIVCLGILPFGSIFIEMYFTFTSFYWKI 346
Db 403 FKNAIEH-PVRTNQIPRQIPEQSFYTKPLPGIIMGILPFGCIFIQLFFILNSIWSHOM 461
Qy 347 YVYVGFMMVLVLIVITCVTVCTVFLNADRYMQWTSFLSAASTAIYVVMYSFYV 406
Db 462 YVYVGFMMVLVLIVITCVTVCTVFLNADRYMQWTSFLSAASTAIYVVMYSFYV 521
Qy 407 FFKTKMYGLFQTSFYFGYMAVFSALGIMCGAI 439
Db 522 FSKLQITGTASTIYFGYTMIMVLIFLFTGTI 554

RESULT 8
US-08-959-004-11
; Sequence 11, Application US/08959004
; Patent No. 6197543
; GENERAL INFORMATION:
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Yue, Henry
; APPLICANT: Corley, Neil C.
; APPLICANT: Lal, Preeti
; APPLICANT: Shah, Purvi
; APPLICANT: Kaser, Matthew
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: Incyte Pharmaceuticals, Inc.
; STREET: 3174 Porter Drive
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/959,004
; FILING DATE: Herewith
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Billings, Lucy J.
; REGISTRATION NUMBER: 36,749
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; REFERENCE/DOCKET NUMBER: PF-0414 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 650-855-0555
; TELEFAX: 650-845-4166
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 667 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GenBank
; CLONE: 2131246
;
US-08-959-004-11

Query Match      25.7%; Score 603; DB 2; Length 667;
Best Local Similarity 33.3%; Pred. No. 1.le-51;
Matches 130; Conservative 77; Mismatches 167; Indels 16; Gaps 7;
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Db	270	DNEVFITYSVKFNESATSWATRWDKYLHYDPS-----	IQFSLINFLSVLVVLSSVVH	324
Qy	112	ILMRLTRKDARYAKSEBEMDDMDRLDGEYGKWGHGDVFRPSPSHPLIFSLLIGSGQIIF	171	
Db	325	SLLRALKSDFARYN-ELNLDD---DFQEDSCWKLNHGHDVFRSPQSLSLTLIVSGVGQLF	380	
Qy	172	AVSLVIIVIAMIEDLY-TERGSMLSLTAFVVAATSPVNGYPGGSLYARQGRRWIKOMFI	230	
Db	381	LMVTCISFFAALGPLSPSRSGSLATVMFILVALFGVGYSTSMGIYKFFNGPYWKANLIL	440	
Qy	231	GAFLIIPAMVCGTAFFINPIAYIHASRAIPGTTMVAVCCICFFVILPLNLVTGILGNLS	290	
Db	441	TPLLVPGAILLIIITALLNFMLFVHSSGVIPASTIFFWFVLFPSIPLSPAGSLIAKRRC	500	
Qy	291	GQNPFPCRVNAVPRPIPEKKWMFEPVAVICLGILPFGSIFIENWIFTSFWAYKIYYVY	350	
Db	501	HWDSEHTKTNQIARQIPQPWYLXTIPTALIAGIFPPGSI-AVELYFIYTSLWFNKIFYMF	560	
Qy	351	GFMMVLVILCIVTVCVTIVCTYFLLNAEDVRWOWTSF-LSAASTAIYVWYSFYVFEFK	409	
Db	561	GFLEFFSLLLTLTSSLTILTYHSLCLENKNWQRGFIIGACCALYFVIHSI--LFTK	618	
Qy	410	KMYGLFQTGFYFGYMAVFSTALGIMCGAI	439	
Db	619	FKLGGFTTIVLYGVGYSSVISLCLCLVTGSI	648	

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RESULT 9
US-09-270-767-44213
; Sequence 44213, Application US/09270767
; Patent NO. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 44213
; LENGTH: 133
; TYPE: PR1
; ORGANISM: Drosophila melanogaster
US-09-270-767-44213

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Db      1  PFGSIPIFYFTSPWAYKIYYVYGFMLLVFSILTWVTVCVTYFLNNAEDYRWQW 60
Qy      386  TSPLSAASAIYYVMTSFYFFYFFKTKMYGLFQTSFYFGYMAVFSTALGIMCCGAI 439
      111::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::
Db      61  TSPMAAGSTSIYYVAYSFYFFPKTKMFGLFQTAFYFGYMALFSGALIGITV 114

RESULT 10
US-09-270-767-59636
; Sequence 59636, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7126-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 59636
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-270-767-59636

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RESULT 11  
 US-09-248-796A-20311  
 ; Sequence 20311, Application US/09248796A  
 ; Patent No. 6747137  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Keith Weinstock et al  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDATE  
 ; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
 ; FILE REFERENCE: 107196.132  
 ; CURRENT APPLICATION NUMBER: US/09/248,796A  
 ; CURRENT FILING DATE: 1999-02-12  
 ; PRIOR APPLICATION NUMBER: US 60/074,725  
 ; PRIOR FILING DATE: 1998-02-13  
 ; PRIOR APPLICATION NUMBER: US 60/096,409  
 ; PRIOR FILING DATE: 1998-08-13  
 ; NUMBER OF SEQ ID NOS: 28208  
 ; SEQ ID NO 20311  
 ; LENGTH: 241  
 ; TYPE: PRT  
 ; ORGANISM: Candida albicans  
 US-09-248-796A-20311

Query Match	23.3%	Score 546;	DB 2;	Length 133;
Best Local Similarity	84.2%;	Pred. No. 6.8e-47;		
Matches	96;	Conservative 11;	Mismatches 7;	Indels 0;
Gaps	0;			



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Job time : 30.5458 secs

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OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 13:58:25 ; Search time 245.063 Seconds  
(without alignments)  
9552.862 Million cell updates/sec

Title: US-09-319-724B-2

Perfect score: 1317

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Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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8: /cgn2\_6/ptodata/1/ina/RE COMB.seq.\*  
9: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1317	100.0	1827	3	US-09-786-681A-3
2	1317	100.0	2072	3	US-09-786-681A-1
3	444	33.7	444	3	US-09-621-976-18829
4	383.4	29.1	440	3	US-09-513-999C-3708
5	369.8	28.1	771	3	US-09-270-767-679
6	369.8	28.1	771	3	US-09-270-767-15961
7	209	15.9	2391	3	US-09-949-016-3623
8	209	15.9	2805	3	US-08-959-004-6
9	207.4	15.7	1878	3	US-10-104-047-1699
10	193	14.7	571	3	US-09-270-767-28434
11	193	14.7	1151	3	US-09-270-767-12633
12	114.6	8.7	726	3	US-09-248-796A-6208
13	100	7.6	262	3	US-09-313-294A-2292
14	91.6	7.0	769	3	US-09-385-982-530
15	73	5.5	433	3	US-09-513-999C-3502
16	64.6	4.9	302	3	US-09-702-705-1002
17	64.6	4.9	302	3	US-09-736-457-1002
18	64.6	4.9	302	3	US-09-614-124B-1002
19	64.6	4.9	302	3	US-09-671-325-1002
20	64.6	4.9	302	3	US-09-658-824-1002
21	64.6	4.9	302	3	US-10-017-754-1002
22	64.6	4.9	302	3	US-09-651-563-1002
23	56.4	4.3	279	3	US-09-313-294A-4533
24	51.8	3.9	7218	2	US-08-232-463-14

25	51.2	3.9	995	3	US-09-270-767-14715	Sequence 14715, A
26	49.2	3.7	601	3	US-09-949-016-127246	Sequence 127246, A
27	49.2	3.7	65661	3	US-09-949-016-15365	Sequence 15365, A
28	47.8	3.6	299	3	US-09-313-294A-772	Sequence 772, App
29	45.6	3.5	519	2	US-08-686-878A-20	Sequence 20, Appl
30	45.6	3.5	519	3	US-09-175-928-20	Sequence 20, Appl
31	44.6	3.4	99500	3	US-09-798-096-10	Sequence 10, Appl
32	44.4	3.4	1141	3	US-09-806-708B-22	Sequence 22, Appl
33	43	3.3	268	3	US-09-313-294A-909	Sequence 909, App
34	42.4	3.2	453	3	US-09-270-767-9089	Sequence 9089, Ap
35	42.4	3.2	453	3	US-09-270-767-24371	Sequence 24371, A
36	42.2	3.2	1141	3	US-09-806-708B-22	Sequence 22, Appl
37	42	3.2	640681	3	US-09-790-988-1	Sequence 1, Appli
38	41	3.1	601	3	US-09-949-016-103893	Sequence 103893, A
39	41	3.1	52314	3	US-09-949-016-14622	Sequence 14622, A
40	40.8	3.1	274	3	US-09-313-294A-3811	Sequence 3811, Ap
41	40.8	3.1	7218	2	US-08-232-463-14	Sequence 14, Appl
42	40.6	3.1	601	3	US-09-949-016-103894	Sequence 103894, A
43	40.6	3.1	187169	3	US-09-949-016-12776	Sequence 12776, A
44	40.6	3.1	191569	3	US-09-949-016-15940	Sequence 15940, A
45	40.4	3.1	238815	3	US-09-949-016-16274	Sequence 16274, A

ALIGNMENTS

RESULT 1

US-09-786-681A-3  
; Sequence 3, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L  
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786.681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 3  
; LENGTH: 1827  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (11)..(1747)  
; US-09-786-681A-3

Query Match	100.0%	Score 1317;	DB 3;	Length 1827;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1317;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGTACATAGATGATTTTACCAATATGGGGTATTGTTGGTGAGGCTGATGAAAAATCGAGAA	60	
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QY	61	GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTGTTTAAATGGAATCGAATGTT	120	
Db	434	GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTGTTTAAATGGAATCGAATGTT	493	
QY	121	GATGTTAATCTAACTAGTGAAGAAAGGTGAACTGGTTTCCAAATCTTAAATCCAGATG	180	
Db	494	GATGTTAATCTAACTAGTGAAGAAAGGTGAACTGGTTTCCAAATCTTAAATCCAGATG	553	
QY	181	TCATATTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGACAAATAT	240	
Db	554	TCATATTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTTGACAAATAT	613	
QY	241	CTTGATCGTCTCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG	300	
Db	614	CTTGATCGTCTCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCAACTCTCTTCATG	673	
QY	301	ATGGTGATCTTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAAAGAT	360	

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Db 674 ATGGTGATCTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGGAACATTAAGAAAAAGAT 733
Qy 361 TATGCTCGGTACAGTAAGAGAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 420
Db 734 TATGCTCGGTACAGTAAGAGAGAAATGGATGATATGGATAGAGACCTAGGAGATGAA 793
Qy 421 TATGATGGAAACAGGTGCATGGAGATGATATTTAGACCATCAAGTCCACCACTGATATTT 480
Db 794 TATGATGGAAACAGGTGCATGGAGATGATATTTAGACCATCAAGTCCACCACTGATATTT 853
Qy 481 TCCTCTCTGATGGTCTGGAATGATGATATTTGCTGCTCTCATCGTTATTTGTT 540
Db 854 TCCTCTCTGATGGTCTGGAATGATGATATTTGCTGCTCTCATCGTTATTTGTT 913
Qy 541 GCAATGATAGAAATTTATATACAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 914 GCAATGATAGAAATTTATATACAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 973
Qy 601 TATGCTGCTAGTCTCCAGTGAATGGTTATTTTGGAGAGTCTGTATGCTAGACAAGGA 660
Db 974 TATGCTGCTAGTCTCCAGTGAATGGTTATTTTGGAGAGTCTGTATGCTAGACAAGGA 1033
Qy 661 GGAAGGAGATGATGAAGACAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGT 720
Db 1034 GGAAGGAGATGATGAAGACAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGT 1093
Qy 721 GGCACTGCTCTTTCATCAATTTTATAGCCATTTTATTTGTTTATTTGTTTCTCTAAATCTT 780
Db 1094 GGCACTGCTCTTTCATCAATTTTATAGCCATTTTATTTGTTTATTTGTTTCTCTAAATCTT 1153
Qy 781 TTTGGAACAATGGTGGCGGTTTGTGCAATCTGTTTATTTGTTTATTTGTTTCTCTAAATCTT 840
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Qy 841 GTTGGTCAATACATTTGCGGAATCTGTGAGTCCAGCCCACTTTCCTTCTGCTGCTCAAT 900
Db 1214 GTTGGTCAATACATTTGCGGAATCTGTGAGTCCAGCCCACTTTCCTTCTGCTGCTCAAT 1273
Qy 901 GCTGTGCTCGTCTATACCGAGAAAAATGGTTTCATGGAGCCTGCGGTTATTTGTTGTC 960
Db 1274 GCTGTGCTCGTCTATACCGAGAAAAATGGTTTCATGGAGCCTGCGGTTATTTGTTGTC 1333
Qy 961 CTGGGTGGAATTTTACCTTTGGTTCAATCTTATTTGAAATGATATTTTCACTTTCACGTCT 1020
Db 1334 CTGGGTGGAATTTTACCTTTGGTTCAATCTTATTTGAAATGATATTTTCACTTTCACGTCT 1393
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Db 1394 TTCTGGGCATATAAGATCTATATGCTATGGCTTCATGCTGCTGCTGCTGCTGCTGCTGCTG 1453
Qy 1081 TGCAATTTGACTGTCTGTGACTATTTGTGTGCACATATTTTCTACTAAATGCAGAAAGAT 1140
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Qy 1141 TACCGGTGGCAATGGACAAGTTTCTCTCTGCTGCATCAACCTGCAATCTATGTTTACATG 1200
Db 1514 TACCGGTGGCAATGGACAAGTTTCTCTCTGCTGCATCAACCTGCAATCTATGTTTACATG 1573
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Db 1574 TATTCCTTTTACTACTATTTTTCAAAACAAAGATGATGCTGCTTATTTTCAACATCATTTT 1633
Qy 1261 TACTTTGATATATGGCGGTATTTTATGACACGCTTGGGGGATATGTTGGAGCGATT 1317
Db 1634 TACTTTGATATATGGCGGTATTTTATGACACGCTTGGGGGATATGTTGGAGCGATT 1690
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## RESULT 2

US-09-786-681A-1

; Sequence 1, Application us/09786681A

; Patent No. 6692926

; GENERAL INFORMATION:

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; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/09/786,681A
; CURRENT FILING DATE: 2001-01-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 2072
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (49)..(1794)
; US-09-786-681A-1
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Query Match 100.0%; Score 1317; DB 3; Length 2072;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTTACCATATCGGGTATTTGGTGAGGCTGATGAAATGGAGAA 60
Db 421 ATGTACATAGATGATTTTACCATATCGGGTATTTGGTGAGGCTGATGAAATGGAGAA 480
Qy 61 GATTACTATCTTTGGACCTATATAAAACCTTGAATAGGTTTTTAATGGAAATCGAATTTGT 120
Db 481 GATTACTATCTTTGGACCTATATAAAACCTTGAATAGGTTTTTAATGGAAATCGAATTTGT 540
Qy 121 GATGTTAACTAACTAGTAGAGGAAAGGTGAAACCTGGTTCCAAATACTATAAATCCAGATG 180
Db 541 GATGTTAACTAACTAGTAGAGGAAAGGTGAAACCTGGTTCCAAATACTATAAATCCAGATG 600
Qy 181 TCATATTTTCAGTAAATAGGAAAGTTCAGATGTCAAATTTTGAAGATCGATTTGACAAATAT 240
Db 601 TCATATTTTCAGTAAATAGGAAAGTTCAGATGTCAAATTTTGAAGATCGATTTGACAAATAT 660
Qy 241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATG 300
Db 661 CTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATG 720
Qy 301 ATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTTAAGAAAAGAT 360
Db 721 ATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTTAAGAAAAGAT 780
Qy 361 TATGCTCGGTACAGTAAAGAGGAAATGCGATGATATGATAGAGACCTAGGAGATGAA 420
Db 781 TATGCTCGGTACAGTAAAGAGGAAATGCGATGATATGATAGAGACCTAGGAGATGAA 840
Qy 421 TATGGATGAAAACAGGTGCATGGAGATGATTTTATAGACCATCAAGTCAACCCACTGATATTT 480
Db 841 TATGGATGAAAACAGGTGCATGGAGATGATTTTATAGACCATCAAGTCAACCCACTGATATTT 900
Qy 481 TCCTCTCTGATTTGGTTCTGAGTGCAGATATTTGCTGTGCTCTCTCATCGTTATTTGTT 540
Db 901 TCCTCTCTGATTTGGTTCTGAGTGCAGATATTTGCTGTGCTCTCTCATCGTTATTTGTT 960
Qy 541 GCAATGATAGAAATTTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTTTGTGTC 600
Db 961 GCAATGATAGAAATTTATATCTGAGAGGGATCAATGCTCAGTACAGCCATATTTTGTGTC 1020
Qy 601 TATGCTGTACGCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
Db 1021 TATGCTGTACGCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1080
Qy 661 GGAAGGAGATGATGAAGCAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGT 720
Db 1081 GGAAGGAGATGATGAAGCAGATGTTTATTTGGGCGATTCCTTATCCAGCTATGGTGTGT 1140
Qy 721 GGCACTGCTCTTTCATCAATTTTATAGCCATTTTATTTGCTTTCAGAGCCATTTCCT 780
Db 1141 GGCACTGCTCTTTCATCAATTTTATAGCCATTTTATTTACATGCTTTCAGAGCCATTTCCT 1200
```

Qy	310	TTCTTGGTGGCCTTAGTTC	CAATTTTAATGAGAACATTTAAGAAAAAGATTAATGCTCTGG	360
Db	181	TTCTTGGTGGCCTTAGTTC	CAATTTTAATGAGAACATTTAAGAAAAAGATTAATGCTCTGG	240
Qy	370	TACAGTAAAGAGGAAGAAAT	CGATGATATGGATAGAGACCTAGGAGATCAATATCGATGG	420
Db	241	TACAGTAAAGAGGAAGAAAT	CGATGATATGGATAGAGACCTAGGAGATGAATATGGATGG	300
Qy	430	AAACAGGTGCATGGAGATG	TATTTAGACCATCAAGTCACCCACTGATATTTTCCCTCTCTG	480
Db	301	AAACAGGTGCATGGAGATG	TATTTAGACCATCAAGTCACCCACTGATATTTTCCCTCTCTG	360
Qy	490	ATTGGTTCTGGATGTCAGAT	TATTTGCTGTGCTCTCATCGTTATTAATTTGTTGCAATGATA	540
Db	361	ATTGGTTCTGGATGTCAGAT	TATTTGCTGTGCTCTCATCGTTATTAATTTGTTGCAATGATA	420
Qy	550	GAAGATTTATATACTGAGAG	GGGA	573
Db	421	GAAGATTTATATACTGAGAG	GGGA	444
RESULT 4				
US-09-513-999C-3708				
; Sequence 3708, Application US/09513999C				
; Patent No. 6783961				
; GENERAL INFORMATION:				
; APPLICANT: Dumas Milne Edwards, J.B.				
; APPLICANT: Duclert, A.				
; APPLICANT: Giordano, J.Y.				
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.				
; Patent No. 6783961				
; FILE REFERENCE: 59.US2.REG				
; CURRENT APPLICATION NUMBER: US/09/513,999C				
; CURRENT FILING DATE: 2000-02-24				
; PRIOR APPLICATION NUMBER: US 60/122,487				
; PRIOR FILING DATE: 1999-02-26				
; NUMBER OF SEQ ID NOS: 36681				
; SOFTWARE: Patent.pm				
; SEQ ID NO 3708				
; LENGTH: 440				
; TYPE: DNA				
; ORGANISM: Homo sapiens				
; FEATURE:				
; NAME/KEY: CDS				
; LOCATION: 180..440				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 151				
; OTHER INFORMATION: m=a or c				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 155				
; OTHER INFORMATION: s=g or c				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 162				
; OTHER INFORMATION: k=g or t				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 184				
; OTHER INFORMATION: n=a, g, c or t				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 323				
; OTHER INFORMATION: w=a or t				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 343				
; OTHER INFORMATION: n=a, g, c or t				
; FEATURE:				
; NAME/KEY: misc_feature				
; LOCATION: 397				
; OTHER INFORMATION: m=a or c				

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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 400
; OTHER INFORMATION: m=a or c
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
; US-09-513-999C-3708

Query Match      29.1%; Score 383.4; DB 3; Length 440;
Best Local Similarity 95.7%; Pred. No. 2.4e-90;
Matches 420; Conservative 5; Mismatches 8; Indels 6; Gaps 3;

Qy 218 TTGAAGATCGATTGACAAATATCTTGATCGCTCTTTTCAACATCGGATTCATTGGT 277
Db 2 TTGAAGATCGATTGACAAATATCTTGATCGCTCTTTTCAACATCGGATTCATTGGT 61

Qy 278 TTTCAATTTTCAACTCTTCATGATGGTGATCTTTGGTGGGCTTAGTTTCAATGATT 337
Db 62 TTTCAATTTTCAACTCTTCATGATGGTGATCTTTGGTGGGCTTAGTTTCAATGATT 121

Qy 338 TAATGAGAACTTAAGAAAG- - -ATTATGCTCGGTACAGTAAGAGGAGAAATCGAT 393
Db 122 TAATGAGAACTTAAGAAAGAAATTAATGCTCGGTACAKTAAGAGGAGAAATCGAT 181

Qy 394 GAT-ATGATAGAACCTTAGAGATGAATATGGATGGAAACAGGTGCATGGATGATT 452
Db 182 GANGATGGATAGAACCTTAGAGATGAATATGGATGGAAACAGGTGCATGGATGATT 241

Qy 453 TAGACCATCAAGTCAACCCACTGATTTTCTCTCTGATGGTCTGGATGTCAGATATT 512
Db 242 TAGACCATCAAGTCAACCCACTGATTTTCTCTCTGATTTGGTTCTGGATGTCAGATATT 301

Qy 513 TGCTGTGCTCTCATCGTTATTATTGTTGCAATGATAGAGATTATATAGAGAGGG 572
Db 302 TGCTGTGCTCTCATCGTTATTATTGTTGCAATGATAGAGATTATATAGAGAGGG 361

Qy 573 ATCAATGCTCAGTACAGCCATATTGTTCTATGCTGTACGCTCT-CCAGTGAATGGTTATT 631
Db 362 ATCAATGCTCAGTACAGCCATATTGTTCTATGCTGTGTTAMGTCTCCCAAGTGAATGGTTATT 421

Qy 632 TTGGAGGAAGTCTGTATGC 650
Db 422 TTGGAGGAAGTCTGTATGC 440

RESULT 5
US-09-270-767-679/c
; Sequence 679, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 679
; LENGTH: 771
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; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-679

Query Match      28.1%; Score 369.8; DB 3; Length 771;
Best Local Similarity 67.7%; Pred. No. 1.1e-86;
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

Qy 190 GTAAATGGAAGATCAGATGTGAATTTGAAGATCGATTTCACAAATATCTTGATCCG 249
Db 765 GTCACTGGAAGCCAGCAAGGTGGAGTTCAGAAATCGATTTCGCAAGTACCTGGATCCC 706

Qy 250 TCCTTTTTCACATCGGATTCATTTGGTTTTCAAATTTTCAACTCTTTCATGATGGTATC 309
Db 705 AACTTCTTCCAGCACAGGATCCACTGGTTCCAGCATCTTCAACAGCTTTCATGATGGTATC 646

Qy 310 TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 369
Db 645 TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATGCTCGG 586

Qy 370 TACAGTAAAGAGGAAGAAATGGATGATATGATAGAGACCTAGGAGATGAATATGGATGG 429
Db 585 TACAGTAAAGAGGAAGAAATCGAGACATGAGGAGATCTTGGTATGAATATCGGATGG 526

Qy 430 AATCAGGTGATGAGATGATTTTAGACCATCAAGTCAACCTGATATTTTCTCTCTG 489
Db 525 AAGCAGGTGATGAGATGATTTTCCGTTCTCCGCCCAACACACTGCTCTTCTCGGCGTTG 466

Qy 490 ATTGGTTCTGATGTCAGATATTTGCTGTCTCTCATCGTTATTTATGTTGCAATGATA 549
Db 465 GTGGCGCTGATGATGATGATTTTGGTTGTTATTTCTGTGATCATGTTTCCGATAGTT 406

Qy 550 GAAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTTCTATGCTGCT 609
Db 405 GGTGAATTTGACCGGAAACGGGCTCCATGCTGTCCAGGCTATATTTGTTATGCGGCC 346

Qy 610 ACCTCTCCAGTGAATGGTTATTTGGAGGAAGTCTGATGCTAGACAAGAGAGAGAGA 669
Db 345 ACCTCACCATCAATGATGATTTGGAGGATGCTCTATGCCGCCCTGGGTGGAGCGCATG 286

Qy 670 TGATTAAGCAGATGTTTATTTGGGGCATTCCTTATCCCAGCTATGTTGCTGTCACCTGCC 729
Db 285 TGGATCCGACAGATGCTGGTGTCCGCTTTTACAGTTCCAGTGGCTGTGTGGGACCGCT 226

Qy 730 TTCTTTCATCAATTTTCATAGCCATTTATTTACCATGCTTTCAGAGAGCCATTTCTTTTGAACA 789
Db 225 TTCTTTCATCAATTTTCATAGCCATTTTCAGCATATCAGCCTCGAGAGCCATTTCTTTTGGTACC 166

Qy 790 ATGCTGGCGGTTTGGTTCATGCTGTTTGGTATTTTGGTATTTCTTCTCTAAATCTTGTGGTACA 849
Db 165 ATGCTGGCGGTCACGTGCTGCTGCTGTTTGTGTCATCTGCTTGTGCTGCTGCTGCTGCTGCT 106

Qy 850 ATACTTGGCGGAATCTGTCAGGTGAGCCCAACTTCTTGTGCTGCTGCTGCTGCTGCTGCT 909
Db 105 GTCGTGGCGGCAATCTGGAGCGCCCAACCGGACTTTTCCATGCGCGGTCAACCGGCTGCCA 46

Qy 910 CGTCTTATACCGGAGAAAAATGTTTCATGAGCGCTGCGGTTATT 954
Db 45 CGACCCATTTCCGAAAAAGAGTGTATACATGGAGCCACTGATTATT 1

RESULT 6
US-09-270-767-15961/c
; Sequence 15961, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
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; SEQ ID NO 15961
; LENGTH: 771
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-15961

Query Match      28.1%; Score 369.8; DB 3; Length 771;
Best Local Similarity 67.7%; Pred. No. 1.1e-86;
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

QY 190 GTAAATCGAAAAAGTCAGATGTAATTTGAGATCGAATTTGACAAATATCTTGATCGG 249
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
765 GTCAACTGGAAGCCAGCAGCAAGGTGAGTTCAAGAAATCGAATCGAATCGATCGATCCC 706
QY 250 TCCCTTTTTCACATCGAATTCATTTGTTTCAATTTTCAATCTCTTCATGATGATGATC 309
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
705 AACTTCTTCAGCAGATCCACTGGTTTCAGATCTTTCACAGCTTCATGATGATGATC 646
QY 310 TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAAGATTATGCTCGG 369
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
645 TTCTGGTGGTCTGTTGCTCATGATTTCTGATGCAACTCTGCGCAAGATTATGCTCGG 586
QY 370 TACAGTAAGAGGAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 429
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
585 TACAGTAAGAGGAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 526
QY 430 AAACAGGTGTCATGAGATGATTTAGACCAATCAAGTCAACCACTGATATTTCTCTCTG 489
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
525 AAGCAGGTGTCATGAGATGATTTCTCGTTCTCGGCCAACACACTGCTCTTCTGGCGTTG 466
QY 490 ATTGTTCTGGATGTCAGATATTTGCTGTGCTCTCTCATCGTTATTTGTTGCAATGATA 549
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
465 GTGGCGCTGGATACCAACTGATTTGCGTGTGTTCTGTGATCATGTTGCGCATGTT 406
QY 550 GAAGATTTATATACAGAGGGATCAATGCTCAGTACAGCAATTTGCTATGCTGCT 609
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
405 GGTGAATTTGACACGGAACGCGGCTCCATGCTGTCCACGGCTATATTTGTTGATCGCGCC 346
QY 610 ACGTCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAAGGAGGAGAGA 669
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
345 ACCTCACCACATCAATGGATATCTTTGGAGATGCTCTATGCCCTGGGTGGAGCATG 286
QY 670 TGGATAAAGCAGATGTTTATTTGGGCACTTCTTATCCAGCTATGTTGTTGGCACTGCC 729
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
285 TGGATCCGACAGATGCTGTTGCTGCTTTTACAGTTCAGTGGCTGTGTCGGCACTGCT 226
QY 730 TTCTTCATCAATTTCAATGCAATTTATACATGCTTCAAGAGCCATTTCTTTTGGAAACA 789
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
225 TTCTTGATCAACTTCATTTGCCATTTGGATATCAAGCTCGAGAGCCATTTCCCTTCGGTACC 166
QY 790 ATGTTGGCGGTTGTTGATCTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 849
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
165 ATGTTGGCGGTTGATGATCTGCTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT 106
QY 850 ATACTTGGCCGGAATCTGTCAAGTTCAGGCCCACTTCTTGTGCTGCTCAATGCTGTGCT 909
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
105 GTCTGGGCGGCAATCTGAGCGGCCAACCGGACTTTCATCGCGGCTCAACGCGGTGCA 46
QY 910 CGTCTATACCGGAGAAAAATGTTTCATGAGAGCTGCGGTTATT 954
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
45 CGACCCATTTCCGAAAGAGTGTGATGATGAGGCACTGATTT 1
```

RESULT 7  
US-09-949-016-3623  
; Sequence 3623, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016

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; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3623
; LENGTH: 2391
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-3623

Query Match      15.9%; Score 209; DB 3; Length 2391;
Best Local Similarity 52.1%; Pred. No. 1.6e-44;
Matches 548; Conservative 0; Mismatches 485; Indels 18; Gaps 3;

QY 236 AATATCTTGATCCGTCCTTTTTCACATCGAATTCATTGGTTTCAATTTTCAATCTCT 295
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
996 ACTATATTTCTGGAGTCTATGCTCATACCACATTCAGTGGTTAGCATTTATGAATCCC 1055
QY 296 TCATGATGGTCTCTTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAA 355
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1056 TGGTCATTTGTTCTCTTCTTATCTGGAATGGTAGCTATGATTATGTTACGACACTGCACA 1115
QY 356 AAGATTATGCTCGGTACAGTAAGAGGAAGAAATGGATGATATGATAGAGACCTAGGAG 415
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1116 AAGATTATGCTAGATATAATCAGATGGACTCTACGGAAGATGCCAG-----G 1163
QY 416 ATGAATATGGAATGAAACAGGTGCAATGGAGATGATTTAGACCAATCAAGTCAACCACTGA 475
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1164 AAGATTATGCTGGAACCTTGTTCATGATGATATATTCGTCCTCAAGAAAGGATGC 1223
QY 476 TATTTTCTCTCTGATGGTCTGGAATGTCAGATATTTGCTGTGCTCTCAATCGTTATTA 535
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1224 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAATATGACCTTTTGTGACTAT 1283
QY 536 TTGTTGCAATCATAGAGATTTATATCTG---AGAGGGGATCAATGCTCAGTACAGCA 592
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1284 TTTTCGCTTGCCTGGGATTTTGTACCTGCCAACCGAGAGCGCTGATGACGTGTGCTG 1343
QY 593 TATTTGCTATGCTGCTACGCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGATGCTA 652
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1344 TGGTCTGCTGCTGCTGCTGGGCACTCCCTGAGGCTATGTTGCTGCCAGATTCATTAAGT 1403
QY 653 GACAGGAGGAAGAGATGGATAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTA 712
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1404 CCTTTGGAGGTGAGAAGTGGAAAAACAAATGTTTATTAACATCAITTTCTTGTCTCGGA 1463
QY 713 TGGTGTGGGCACTGCTCTTCTCATCAATTTTCATAGCCATTTTATACATGCTTCAAGAG 772
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1464 TTGATTTTGTCTGACTTCTTTATAATGATCTGATCTCTCGGGGAGAAGGATCTTCAGCAG 1523
QY 773 CCATTTCTTTTGGAAACATGTTGGCCGTTTGTGCTGCTGTTTGTGTTTGTGTTTGTGTTTCT 832
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1524 CTATTTCTTTTGGGACACTGGTTGGCCATTTTGGCCCTTTGGTTCTGCAATCTGTGCTC 1583
QY 833 TAAATCTTTGTTGTAACAATCTTGGCCGAAATCTGTACAGGTGAGCCCACTTTTCTTGTG 892
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1584 TGACGTTTATTTGGTGACATCTTTGTTTAAAGAGAAATGCCATTTGAACAC---CCAGTTC 1640
QY 893 GTGTCAATGCTGTGCTCTGCTATACCGGAGAAAAAATGGTTTCATGAGGCTCGGGTTA 952
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1641 GAACCAATCAGATTTCCACGTCAGATTCCTGAACAGTCTGTTCTACACGAAGCCCTTGCCTG 1700
QY 953 TTGTTGCTCGGTGGAAATTTTACCTTTGTTGTTCAATCTTTTATTCAAATGATTTTCATCT 1012
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1701 GTATTATCAUGGAGGAGATTTTGGCCCTTGGCTGCACTTTTATACAACTTTTCTTCATTC 1760
QY 1013 TCAGCTCTTTCTGGGCAATATAAGATCTATTATGCTATGGCTTCATGATGCTGCTGG 1072
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Db 1761 TGAATAGTATTGGTCACACCAGATGATTATACATGTTTGGCTTCCTATTCTGGTGTTA 1820  
 Qy 1073 TTATCCTGTGCATTTGAGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATG 1132  
 Db 1821 TCATTTTGGTATTACCTGTTCTGAAGCAACTATACCTTCTTTTGTCTATTTCACCTATGTG 1880  
 Qy 1133 CAGAAGATTACCGTGGCAATGGACAAAGTTTCTCTCTGTGCAATCAACTGCAATCTATG 1192  
 Db 1881 CAGAGGATTATCATTTGGCAATGGCGTTTCATTCCTTACGAGTGGCTTTTACTGCACTTTATT 1940  
 Qy 1193 TTTACATGTATTCTCTTTTACTACTATTATTTTCAAAAACAAGATGTATGGCTTATTTCAAA 1252  
 Db 1941 TCTTAATCTATGAGTACACTACTTCTTTTCAAACTGCAGATCACGGGAACCAAGCA 2000  
 Qy 1253 CATCATTTTACTTTGGATATATGGCGGTATT 1283  
 Db 2001 CAATTCGTACTTTTGGTTATACCATGATAAT 2031

## RESULT 8

US-08-959-004-6  
 ; Sequence 6, Application US/08959004  
 ; Patent No. 6197543  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Hillman, Jennifer L.  
 ; APPLICANT: Yue, Henry  
 ; APPLICANT: Corley, Neil C.  
 ; APPLICANT: Lal, Preeti  
 ; APPLICANT: Shah, Purvi  
 ; APPLICANT: Kaser, Matthew  
 ; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
 ; TITLE OF INVENTION: PROTEINS  
 ; NUMBER OF SEQUENCES: 11  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 ; STREET: 3174 Porter Drive  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94304  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Diskette  
 ; COMPUTER: IBM Compatible  
 ; OPERATING SYSTEM: DOS  
 ; SOFTWARE: FastSeq for Windows Version 2.0  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/959,004  
 ; FILING DATE: Herewith  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER:  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Billings, Lucy J.  
 ; REGISTRATION NUMBER: 36,749  
 ; REFERENCE/DOCKET NUMBER: PF-0414 US  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 650-855-0555  
 ; TELEFAX: 650-845-4166  
 ; TELEX:  
 ; INFORMATION FOR SEQ ID NO: 6:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 2805 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY: ADRETU06  
 ; CLONE: 2822412  
 ; US-08-959-004-6

Query Match 15.9%; Score 209; DB 3; Length 2805;  
 Best Local Similarity 52.1%; Pred. No. 1.7e-44;

Matches	548;	Conservative	0;	Mismatches	485;	Indels	18;	Gaps	3;
Qy	236	AATATCTTGATCCGTCCTCTTTTCAACATCGGATTCATTTGGTTTTTCAATTTTCAATTTTCAACTCCT	295						
Db	1044	ACTATATTCTGGAGTCTATGCCTCATACCACATTCAGTGGTTTAGCATTTAGATTAATTCCTCC	1103						
Qy	296	TCATGATGGTGAATCTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAAGAA	355						
Db	1104	TGGTCATTTGTTCTCTTCTTATCTGGAATGGTAGCTATGATTAATGTTACGGACACTGCACA	1163						
Qy	356	AGATTTATGTCCTCGTACAGTAAGAGGAAGAAATGGATGATATGATGATAGACCTAGGAG	415						
Db	1164	AGATATTGCTAGATATAATCAGATGGACTCTCAGGAAGATGCCAG-----G	1211						
Qy	416	ATGAATATGGATGGAAACAGGTGCATGGAGATGATTTTAGACCATCAAGTCACCCACTGA	475						
Db	1212	AAGAAATTTGGCTGGAAACTTTGTCATGGTGTATATTCGGTCCTCCAAGAAAAGGGATGC	1271						
Qy	476	TATTTTCTCTCTGATTTGGTTCGGATGTCAGATATTTTGGTGTGTCTCTCATCTTATTA	535						
Db	1272	TGCTATCAGTCTTTTCTAGGATCCGGGACACAGATTTTAAATATGACCTTTGTGACTCTAT	1331						
Qy	536	TTGTTGCAATGATAGAAAGATTTTATATACTG--AGAGGGATCAATGCTCAGTACAGCA	592						
Db	1332	TTTTCGCTTCGCTGGGATTTTGTCCACTGCCAACCGAGAGCGCTGATGACGTGTGCTG	1391						
Qy	593	TATTTGTCTATGCTGTACGTCCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTA	652						
Db	1392	TGGTCCTGTGGTGTCTGCTGGCACCCCTCAGGCTATTTGCTGCCAGATTCCTATAAGT	1451						
Qy	653	GACAAAGGAGGAAGAGATGGATAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTA	712						
Db	1452	CCTTTGGAGGTGAGAGTGGAAAACAAATGTTTTTAAACATCATTTCTTTGTCTCGGA	1511						
Qy	713	TGGTGTGTGCACTGCTCTTCATCAATTTTATAGCCATTTTATACCATGCTTCAAGAG	772						
Db	1512	TTGTATTTGCTGACTCTTTTATTAATGAATCTGATCTCTCGGGAGAGGATCTTCAGCAG	1571						
Qy	773	CCATTTCTTTTGGAAACAATGGTGGCGCTTTGTTGCATCTGTTTTTTTTGTATTCTTCTC	832						
Db	1572	CTATTCCTTTTGGACACTGGTTGCCATAATGGCCCTTTGGTCTGCATATCTGTGCTC	1631						
Qy	833	TAAATCTTTGTTGTTACATACACTTTGGCGGAAATCTGTGAGTCCAGCCCACTTTCTTGT	892						
Db	1632	TGACGTTTATTTGGTGCATACCTTTTGGTTTAAAGAAATGCCATTTGAACAC---CCAGTTC	1688						
Qy	893	GTGTCATGCTGTGCTCGCTCTATACCGGAGAAAAATGGTTCATGGAGCTCGCGTTA	952						
Db	1689	GAACCAATCAGATTCACGTCAGATTCCTGACAGTCTGTCTACACGAAGCCCTTGGCTG	1748						
Qy	953	TTGTTTGCCTGGTGGAAATTTTACCTTTTGGTTCAATCTTTTATTTGAAATGTATTTCATCT	1012						
Db	1749	GTATTATCATGGGAGGATTTTGGCTTGGCTGATCTTTATACAACTTTTCTTCAATTC	1808						
Qy	1013	TCAGTCTTTTCTGGGCATATAAGATCTATTATGCTATGGCTTCATGATGCTGTGCTGG	1072						
Db	1809	TGAATAGTATTGGTCAACACAGATGATTACATGTTTGGCTTCTCTATTTTGTGTTTA	1868						
Qy	1073	TTATCCTGTGCAATTTGTGACTGTCTGTGTAATTTGTTGTGCACATATTTTCTACTAAATG	1132						
Db	1869	TCATTTTGGTTATTACCTGTTCTGAAGCAACTATCTTCTTTGCTATTTCACCTATGTG	1928						
Qy	1133	CAGAAGATTACCGTGGCAATGGCAAGTTTCTCTGCTGTCATCACTCACTGCAATCTATG	1192						
Db	1929	CAGAGGATTATCATTTGGCAATGGCTTCAATCTCTTACGAGTGGCTTTTACTGCAGTTATT	1988						
Qy	1193	TTTACATGTTATCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAA	1252						
Db	1989	TCCTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACCAAGCA	2048						
Qy	1253	CATCATTTTACTTTTGGATATATATGGCGGTATT	1283						
Db	2049	CAATTCGTACTTTGGTTATACCATGATAAT	2079						

QY	953	TTGTTTGGCTGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGATATTTCAATCT	1012
DB	1398	GTATTTATCATGGGAGGGATTTTGGCCCTTTGGCTGCAATCTTTATACAACTTTTCTTCAATTC	1457
QY	1013	TCACGTCCTTTCTGGGCATATAAGATCATATTATGTCTATGCTTTCATGATGCTGCTGCTGG	1072
DB	1458	TGAAATGATATTTGGTCACACCAAGATGATTTACATGTTTGGCTTCCCTATTTCTGCTGTTTA	1517
QY	1073	TTATCCTGTGCATTTGACTGTCTGTGTGCACTATTGTGTGCACATATTTTCTACTAAATG	1132
DB	1518	TCATTTTGGTTATTTACCTGTCTCTGAAGCAACTATATCTTCTTGTCTATTTTCCACCTATGTG	1577
QY	1133	CAGAAGATTTACCGTGGCAATGAGCAAGTTTCTCTCTGCTGCATCACTGCAATCTATG	1192
DB	1578	CAGAGGATTTATCATTTGGCAATGGCGTTCAATTCCTTACGAGTGGCTTTTACTGCGAGTTTAT	1637
QY	1193	TTTACATGTTATTCCTTTTACTACTATTATTTTCAAAAAGATGATGCTTATTTTCAAA	1252
DB	1638	TCTTAATCTATGCAGTACACTACTTCTTTTCAAACTGCAGATCACGGNACAGCAAGCG	1697
QY	1253	CATCATTTTACTTTGGATATATGGCGGTAAT	1283
DB	1698	CAATTCTGTACTTTGGTTATACCATGATAAT	1728
RESULT 10			
US-09-270-767-28434			
; Sequence 28434, Application US/09270767			
; Patent No. 6703491			
; GENERAL INFORMATION:			
; APPLICANT: Homburger et al.			
; TITLE OF INVENTION: Nucleic acids and proteins of <i>Drosophila melanogaster</i>			
; FILE REFERENCE: File Reference: 7326-094			
; CURRENT APPLICATION NUMBER: US/09/270,767			
; CURRENT FILING DATE: 1999-03-17			
; NUMBER OF SEQ ID NOS: 62517			
; SOFTWARE: PatentIn Ver. 2.0			
; SEQ ID NO 28434			
; LENGTH: 571			
; TYPE: DNA			
; ORGANISM: <i>Drosophila melanogaster</i>			
US-09-270-767-28434			
Query Match 14.7%; Score 193; DB 3; Length 571;			
Best Local Similarity 73.3%; Pred. No. 1.4e-40;			
Matches 247; Conservative 0; Mismatches 90; Indels 0; Gaps 0;			
QY	974	TACCTTTTGGTTCAATCTTTATTTGAAATGATTTTCACTTTTCAGTCTTTCTGGGCATATA	1033
DB	1	TGCCCTTTGGATCCCATCTTTCATTTAGATGATCTTTCATCTTCACCTCCTCTTGGCGGTACA	60
QY	1034	AGATCTATTATGTCATGCTTTCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1093
DB	61	AGATCTACTAGCTCTACGGCTTCATGTTGCTGGTTTCAGCATCTCTGCTGCTGCTGCTGCTG	120
QY	1094	TCGTGTGACTATTTGTGTGCACATATTTTCTACTAAATGCAAGATTAACCGGTGGCAAT	1153
DB	121	TGTGGCTCACCATCGTGTGCACCTACTTCTGTAAATGCCAGGATTAACCGATGGCAGT	180
QY	1154	GGACAAGTTTCTCTCTGCTGCATCAACCTGCAATCTATGTTTACATGTTATTCCTTTTACT	1213
DB	181	GGACAGATTTTCATGGCTGGGGCTCCACGTGATTTACGTGACGCTATPTCCTTCTTAT	240
QY	1214	ACTATTTTTTCAAAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTTGGATATA	1273
DB	241	ACTTCTTTTAAACCAAAATGTTGGTCTGTTTCAAAAGGGCTTCTACTTTGGCTACA	300
QY	1274	TGGCGGTATTTAGCAAGCCTTTGGGATTAATGTGTGG	1310
DB	301	TGGCACTCTTTCAGCGCGCTTTGGGCATTTATCTGCGG	337



Db 99 GGACGCTGTTCTTCTCTGCGGCTCAACCGCTCTGCTAGCTGTATCTGTACTCCATCTACT 158  
Qy 1214 ACTATTTTTCNAACAAGATGATGCTTATTTTCAAAACATCATTTTACTTTTGGATATA 1273  
Db 159 ACTACCATGTGAAGACAAAGATGTGAGGCTTCTCCAGACAAGTTTCTTATTTGCGCTACA 218  
Qy 1274 TGGCGGTATTTAGCACAGCTTGGGGATAAATGCTGGAGCGGATT 1317  
Db 219 CGCTGATGTTCTGC-CTGCGCTAGGCATCATCTTTGTGGAGCTATT 261

## RESULT 14

US-09-385-982-530/c  
; Sequence 530, Application US/09385982  
; Patent No. 6262334  
; GENERAL INFORMATION:  
; APPLICANT: ENDEGE, WILSON O., ET AL.  
; TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION  
; FILE REFERENCE: CCNA-260XX  
; CURRENT APPLICATION NUMBER: US/09/385,982  
; CURRENT FILING DATE: 1999-08-30  
; EARLIER APPLICATION NUMBER: 09/328,111  
; EARLIER FILING DATE: 1999-06-08  
; EARLIER APPLICATION NUMBER: 60/117,393  
; EARLIER FILING DATE: 1999-01-27  
; EARLIER APPLICATION NUMBER: 60/098,639  
; EARLIER FILING DATE: 1998-08-31  
; NUMBER OF SEQ ID NOS: 544  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 530  
; LENGTH: 769  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1)..(769)  
; OTHER INFORMATION: n = A,T,C or G  
US-09-385-982-530

Query Match 7.0%; Score 91.6; DB 3; Length 769;  
Best Local Similarity 57.0%; Pred. No. 4.8e-14;  
Matches 166; Conservative 0; Mismatches 125; Indels 0; Gaps 0;  
Qy 905 TGCCTGCTCTATACCGAGAAAATGGTTCATGAGCGCTGCGGTATTTGTCCTGG 964  
Db 308 TCCACNGTCAGATTCCTGACAGAGTCTCTACAGAGCCCTTGCTGGTATTATCATGG 249  
Qy 965 GTGGAATTTTACCTTTTGGTTCAATCTTTATTGAAATGATTTTCATCTTCAGCTTTCT 1024  
Db 248 GAGGATTTTGGCCCTTTGGCTGCACTCTTTATACAACTTTCTTCATCTGAAATGATTT 189  
Qy 1025 GGGCATATAAGATCTATTATGTCTATGCTTCATGATCGTGGTGTATCTCTGTGCA 1084  
Db 188 GGTACACACAGATGATTTACATGTTGGCTTCCATTTCTGGTGTATATCAITTTGGTTA 129  
Qy 1085 TTGTGACTGTCTGTGTGATGATTTGTGTGCAATATTTTCTACTAAATGCAAGATTAAC 1144  
Db 128 TTACCTGTTCTGAAGCAACTACTACTCTTTGTGATTTCCACCTATGTGCAGAGGATTATC 69  
Qy 1145 GTTGGCAATGGACAAGTTTCTCTCTGCTGATCACTCAATCTATGCTTT 1195  
Db 68 ATTGGCAATGGGTTTCATCTCCTTACGAGTGGCTTTACTGCAAGTTTATTTCT 18

## RESULT 15

US-09-513-999C-3502  
; Sequence 3502, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.

; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513,999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 3502  
; LENGTH: 433  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 100..432  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: 86  
; OTHER INFORMATION: m=a or c  
US-09-513-999C-3502

Query Match 5.5%; Score 73; DB 3; Length 433;  
Best Local Similarity 100.0%; Pred. No. 2.8e-09;  
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTACATAGATGATTTTACCAATATGGGTTATTTGGTGAGGCTGATGAAAAATGGAGAA 60  
Db 361 ATGTACATAGATGATTTTACCAATATGGGTTATTTGGTGAGGCTGATGAAAAATGGAGAA 420  
Qy 61 GATTACTATCTTT 73  
Db 421 GATTACTATCTTT 433

Search completed: December 13, 2005, 14:52:00  
Job time : 248.063 secs

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OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 14:39:49 ; Search time 1137.85 Seconds  
(without alignments)  
9571.352 Million cell updates/sec

Title: US-09-319-724B-2

Perfect score: 1317

Sequence: 1 atgcatatagatgattacc.....ggataatgtgtggagcgatt 1317

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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9: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/1/pubpna/US11\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1317	100.0	1827	8	US-10-755-466-3
2	1317	100.0	2072	8	US-10-755-466-1
3	1317	100.0	3076	3	US-09-915-582-29
4	1317	100.0	3076	6	US-10-277-802-29
5	1317	100.0	3076	8	US-10-896-972-29
6	1317	100.0	3508	3	US-09-814-353-21837
7	1317	100.0	4024	5	US-10-198-846-10005
8	1315.4	99.9	3370	3	US-09-374-046A-25
9	1315.4	99.9	3370	7	US-10-616-263-25
10	1226	93.1	3389	6	US-10-205-219-122
11	1226	93.1	3389	9	US-10-956-157-2297
12	1226	93.1	3389	9	US-10-287-436A-335
13	709.6	53.9	6197	6	US-10-062-674-1697
14	590.4	44.8	1070	6	US-10-264-237-1414
15	537.4	40.8	560	7	US-10-242-535A-2630
16	537.4	40.8	560	7	US-10-085-783A-2630
17	512.4	38.9	4163	10	US-11-097-143-22276
18	502	38.1	1863	10	US-11-097-143-22277
19	499	37.9	1899	7	US-10-437-963-39405
20	492.6	37.4	1867	3	US-09-915-582-13
21	492.6	37.4	1867	6	US-10-277-802-13
22	492.6	37.4	1867	8	US-10-896-972-13
23	491.6	37.3	2039	7	US-10-425-114-26742

24	491.6	37.3	2068	8	US-10-425-115-101961	Sequence 101961,
25	483.6	36.7	2355	8	US-10-739-930-4365	Sequence 4365, Ap
26	481.8	36.6	2406	7	US-10-437-963-14430	Sequence 14430, A
c 27	473.2	35.9	545	9	US-10-287-436A-887	Sequence 887, App
c 28	473.2	35.9	545	9	US-10-287-436A-1419	Sequence 1419, Ap
29	472.4	35.9	2461	8	US-10-425-115-140808	Sequence 140808,
30	461.4	35.0	2698	8	US-10-425-115-140919	Sequence 140919,
31	454.4	34.5	2152	7	US-10-767-701-12720	Sequence 12720, A
32	449.6	34.1	2316	7	US-10-437-963-658	Sequence 658, App
33	416.4	31.6	419	3	US-09-918-995-3956	Sequence 3956, Ap
34	409.6	31.1	497	3	US-09-969-034-1724	Sequence 1724, Ap
c 35	406.4	30.9	1535	8	US-10-425-115-21677	Sequence 21677, A
c 36	406.2	30.8	459	6	US-10-062-674-445	Sequence 445, App
37	365.6	27.8	455	6	US-10-002-631C-133	Sequence 133, App
38	365.6	27.8	455	6	US-10-002-631C-134	Sequence 134, App
39	291.4	22.1	418	9	US-10-779-543-11907	Sequence 11907, A
40	284.2	21.6	731	7	US-10-333-184-388	Sequence 388, App
41	280.4	21.3	2032	8	US-10-425-115-21679	Sequence 21679, A
42	276.6	21.0	2748	7	US-10-424-599-103451	Sequence 103451,
43	274.4	20.8	1033	7	US-10-425-114-16392	Sequence 16392, A
44	273.8	20.8	529	5	US-10-198-846-11456	Sequence 11456, A
45	262.6	19.9	600	7	US-10-021-323-3365	Sequence 3365, Ap

## ALIGNMENTS

### RESULT 1

US-10-755-466-3

; Sequence 3, Application US/10755466

; Publication No. US20040265854A1

; GENERAL INFORMATION:

; APPLICANT: HIDAKA, Jun et al.

; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L

; FILE REFERENCE: 0020-4827P

; CURRENT APPLICATION NUMBER: US/10/755,466

; CURRENT FILING DATE: 2004-01-13

; PRIOR APPLICATION NUMBER: US/09/786,681

; PRIOR FILING DATE: 2001-04-30

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: PatentIn version 3.0

; SEQ ID NO 3

; LENGTH: 1827

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (11)..(1747)

US-10-755-466-3

Query Match 100.0%; Score 1317; DB 8; Length 1827;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ATGTACATAGATGATTTTACCAATATGGGTATTGTTGGTGAGGCTGTGATAAATCGAGAA	60
Db	374	ATGTACATAGATGATTTTACCAATATGGGTATTGTTGGTGAGGCTGTGATAAATCGAGAA	433
Qy	61	GATTACTATCTTTGGACCTATATAAACTTGAATAAGTGTGTTTAAATGGAATCGAATTGTT	120
Db	434	GATTACTATCTTTGGACCTATATAAACTTGAATAAGTGTGTTTAAATGGAATCGAATTGTT	493
Qy	121	GATGTTAATCTAACTAGTGAAGGAAGTGAACCTGGTTCCAATCTAAATCCAGATG	180
Db	494	GATGTTAATCTAACTAGTGAAGGAAGTGAACCTGGTTCCAATCTAAATCCAGATG	553
Qy	181	TCATATTTCAGTAAATGGAAGTTCAGATCTGAAATTTGAAGATCGATTTCACAAATAT	240
Db	554	TCATATTTCAGTAAATGGAAGTTCAGATCTGAAATTTGAAGATCGATTTCACAAATAT	613
Qy	241	CTTGATCCGTCCTTTTTCACATCCGATTCATTGGTTTCAATTTTCAACTCTCTTCATG	300

Db 614 CTTGATCGTCTCTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCCTTCATG 673  
Qy 301 ATGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACAATTAAAGAAAAGAT 360  
Db 674 ATGTGATCTTCTTGGTGGGCTTAGTTTCAATGATTTTAAATGAGAACAATTAAAGAAAAGAT 733  
Qy 361 TATGCTGGTACAGTAAGAGGAAGAAATGGATGATATGATAGAGACCTAGGAGATGAA 420  
Db 734 TATGCTGGTACAGTAAGAGGAAGAAATGGATGATATGATAGAGACCTAGGAGATGAA 793  
Qy 421 TATGATGGAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCAACCCACTGATATTT 480  
Db 794 TATGATGGAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCAACCCACTGATATTT 853  
Qy 481 TCCTCTCTGATGTGTTCTGGATGTCAGATATTTCTGTGTCTCTCATCGTTATTATTGTT 540  
Db 854 TCCTCTCTGATGTGTTCTGGATGTCAGATATTTCTGTGTCTCTCATCGTTATTATTGTT 913  
Qy 541 GCAATGATAGAGATTTATATACCTAGAGGGGATCAATGCTCAGTACAGCCATATTGTC 600  
Db 914 GCAATGATAGAGATTTATATACCTAGAGGGGATCAATGCTCAGTACAGCCATATTGTC 973  
Qy 601 TATGCTGCTAGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
Db 974 TATGCTGCTAGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1033  
Qy 661 GGAAGGAGATGGATAAGAGCAGATGTTTATTGGGSCATTCCCTATPCCAGCTATGGTGTT 720  
Db 1034 GGAAGGAGATGGATAAGAGCAGATGTTTATTGGGSCATTCCCTATPCCAGCTATGGTGTT 1093  
Qy 721 GGCACTGCCCTCTTCATCAATTTTATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 780  
Db 1094 GGCACTGCCCTCTTCATCAATTTTATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 1153  
Qy 781 TTTGGAACAAATGGTGGCGGTTTGTGATCTGTTTTTGTATTTCTCTCTAAATCTT 840  
Db 1154 TTTGGAACAAATGGTGGCGGTTTGTGATCTGTTTTTGTATTTCTCTCTAAATCTT 1213  
Qy 841 GTTGGTACAAATPCTTGGCCGAAATCTGTAGGTCAGGCCCAACTTTCCTTGTGTCGAAT 900  
Db 1214 GTTGGTACAAATPCTTGGCCGAAATCTGTAGGTCAGGCCCAACTTTCCTTGTGTCGAAT 1273  
Qy 901 GCTGTGCTCGTCTATACCGGAGAAAATGGTTTCATGAGCCCTGGGTTATTGTTGC 960  
Db 1274 GCTGTGCTCGTCTATACCGGAGAAAATGGTTTCATGAGCCCTGGGTTATTGTTGC 1333  
Qy 961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATGAAATGTATTTTCATCTTCACGTCT 1020  
Db 1334 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATGAAATGTATTTTCATCTTCACGTCT 1393  
Qy 1021 TTTCTGGGCATATAAGATCTATTATGTTCTATGGCTTCAATGCTGTGTTGTTATCCTG 1080  
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Qy 1081 TGCATTGTGACTGCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAGAAGAT 1140  
Db 1454 TGCATTGTGACTGCTGTGACTATTGTGTGACATATTTTCTACTAAATGCAGAAGAT 1513  
Qy 1141 TACCGGTGGCAATGGACAAGTTTTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200  
Db 1514 TACCGGTGGCAATGGACAAGTTTTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1573  
Qy 1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGATGGCTTATTTTCAAAACATCATTT 1260  
Db 1574 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGATGGCTTATTTTCAAAACATCATTT 1633  
Qy 1261 TACTTTGGATATATGGCGGTATTTTAGCACAGCCCTGGGGGATATGCTGAGGCGATT 1317  
Db 1634 TACTTTGGATATATGGCGGTATTTTAGCACAGCCCTGGGGGATATGCTGAGGCGATT 1690

; Sequence 1, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10/755,466  
; PRIOR FILING DATE: 2004-01-13  
; CURRENT APPLICATION NUMBER: US/09/786,681  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 1  
; LENGTH: 2072  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (49)..(1794)  
US-10-755-466-1

Query Match 100.0%; Score 1317; DB 8; Length 2072;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTACATAGATGATTTACCAATATATGGGGTATTTTGGTGAGGCTGATGAAAAATGGAGAA 60  
Db 421 ATGTACATAGATGATTTACCAATATATGGGGTATTTTGGTGAGGCTGATGAAAAATGGAGAA 480  
Qy 61 GATTACTATCTTTGGACCTTATAAAAAAATTGAAATAGGTTTTTAATGGAAATCGAATGTT 120  
Db 481 GATTACTATCTTTGGACCTTATAAAAAAATTGAAATAGGTTTTTAATGGAAATCGAATGTT 540  
Qy 121 GATGTTAACTACTAGTGAAGGAAAGGTGAAATCGTCCAAATACTATAAATCCAGATG 180  
Db 541 GATGTTAACTACTAGTGAAGGAAAGGTGAAATCGTCCAAATACTATAAATCCAGATG 600  
Qy 181 TCATATTCAGTAAATGGAAGAAAGTCAGATGTGAAATTTGAAAGATCGATTTGACAAATAT 240  
Db 601 TCATATTCAGTAAATGGAAGAAAGTCAGATGTGAAATTTGAAAGATCGATTTGACAAATAT 660  
Qy 241 CTTGATCCGTCCTTTTTTCAACATCGGATTCATGTTGTTTCAATTTTCAACTCCTTCATG 300  
Db 661 CTTGATCCGTCCTTTTTTCAACATCGGATTCATGTTGTTTCAATTTTCAACTCCTTCATG 720  
Qy 301 ATGGTGCATCTTCTGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTTAAGAAAAGAT 360  
Db 721 ATGGTGCATCTTCTGTGGGCTTAGTTTCAATGATTTTAAATGAGAACATTTAAGAAAAGAT 780  
Qy 361 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGATAGAGACCTTAGGAGATGAA 420  
Db 781 TATGCTCGGTACAGTAAAGAGGAAGAAATGGATGATATGATAGAGACCTTAGGAGATGAA 840  
Qy 421 TATGGATGGAACACAGGTGATGAGATGATTTTAGACCATCAAGTCAACCCACTGATATTT 480  
Db 841 TATGGATGGAACACAGGTGATGAGATGATTTTAGACCATCAAGTCAACCCACTGATATTT 900  
Qy 481 TCCTCTCTGATTTGTTCTGATGTCAGATATTTTGTGTGTCCTCATCGTTATTATTGTT 540  
Db 901 TCCTCTCTGATTTGTTCTGATGTCAGATATTTTGTGTGTCCTCATCGTTATTATTGTT 960  
Qy 541 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTGTC 600  
Db 961 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTGTC 1020  
Qy 601 TATGCTGCTACGTCCTCCAGTGAATGTTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660  
Db 1021 TATGCTGCTACGTCCTCCAGTGAATGTTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1080  
Qy 661 GGAAGGAGATGGATAAGAGCAGATGTTTATTGGGSCATTCCCTATCCAGCTATGGTGTT 720  
Db 1081 GGAAGGAGATGGATAAGAGCAGATGTTTATTGGGSCATTCCCTATCCAGCTATGGTGTT 1140



721 GGCACCTGCTCTTCTCATCAATTTTATAGCCATTTTATACCATGCTTCAAGAGCCATTCT 780  
1141 GGCACCTGCTCTTCTCATCAATTTTATAGCCATTTTATACCATGCTTCAAGAGCCATTCT 1200  
781 TTTGGAACAATGGTGGCCGTTTGTGTCATCTGTTTTTTTGTGTTTATTTCTTCTCTAAATCTT 840  
1201 TTTGGAACAATGGTGGCCGTTTGTGTCATCTGTTTTTTTGTGTTTATTTCTTCTCTAAATCTT 1260  
841 GTTGTGACAACTTGGCCGAAATCTGTCAGTCTAGCCCAACTTTCTTCTGCTGCTCAAT 900  
1261 GTTGTGACAACTTGGCCGAAATCTGTCAGTCTAGCCCAACTTTCTTCTGCTGCTCAAT 1320  
901 GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGGAGCCCTGCGGTATTTGTTGTC 960  
1321 GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGGAGCCCTGCGGTATTTGTTGTC 1380  
961 CTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATGAAATGTAATTTCAATCTTCAATCTT 1020  
1381 CTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATGAAATGTAATTTCAATCTTCAATCTT 1440  
1021 TTCTGGGCATATAAGATCTATTTATGTCATGCTTTCATGATGCTGGTGTGTTATCTCTG 1080  
1441 TTCTGGGCATATAAGATCTATTTATGTCATGCTTTCATGATGCTGGTGTGTTATCTCTG 1500  
1081 TGCAATGTGACGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAAGAT 1140  
1501 TGCAATGTGACGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAAGAT 1560  
1141 TACCGGTGGCAATGGACAAAGTTTCTCTGCTGTCATCACTGCAATCTATGTTTACATG 1200  
1561 TACCGGTGGCAATGGACAAAGTTTCTCTGCTGTCATCACTGCAATCTATGTTTACATG 1620  
1201 TATTCCTTTTACTACTATTTTTCAAAACAAGATGTAAGCTTATTTTCAAAACATCATTT 1260  
1621 TATTCCTTTTACTACTATTTTTCAAAACAAGATGTAAGCTTATTTTCAAAACATCATTT 1680  
1261 TACTTTGGATATATGGCGTATTTAGCACAGCTTTGGGATAAATGTGTGGAGCGATT 1317  
1681 TACTTTGGATATATGGCGTATTTAGCACAGCTTTGGGATAAATGTGTGGAGCGATT 1737

RESULT 3

US-09-915-582-29  
; Sequence 29, Application US/09915582  
; Patent No. US20020120103A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723P1  
; CURRENT APPLICATION NUMBER: US/09/915,582  
; CURRENT FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c

US-09-915-582-29 Query Match 100.0%; Score 1317; DB 3; Length 3076;

Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATGTACATAGATGATTTACCAATATATGGGGTATTTGGTGGAGCTGATGAAAAATGGAGAA 60  
DB 352 ATGTACATAGATGATTTACCAATATATGGGGTATTTGGTGGAGCTGATGAAAAATGGAGAA 411  
QY 61 GATTACTATCTTTGGACCTATAAAAAAATTGAAATAGGTTTTTAATGGAATCGAATGTT 120  
DB 412 GATTACTATCTTTGGACCTATAAAAAAATTGAAATAGGTTTTTAATGGAATCGAATGTT 471  
QY 121 GATGTTAATCTAACTAGTGAAGGAAAGTGAACCTGGTTCCAAATATCTAAATTCAGATG 180  
DB 472 GATGTTAATCTAACTAGTGAAGGAAAGTGAACCTGGTTCCAAATATCTAAATTCAGATG 531  
QY 181 TCATATTTCAGTAAATGGAAGAGTCAGATGTGAATTTGAAGATCGATTTCACAAATAT 240  
DB 532 TCATATTTCAGTAAATGGAAGAGTCAGATGTGAATTTGAAGATCGATTTCACAAATAT 591  
QY 241 CTTGATCGTCTCTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCTCTCATG 300  
DB 592 CTTGATCGTCTCTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAACTCTCTCATG 651  
QY 301 ATGTTGATCTTCTTTGGTGGGCTTACTTTCAATGATTTTAAATGAGAACATTTAAGAAAAGAT 360  
DB 652 ATGTTGATCTTCTTTGGTGGGCTTACTTTCAATGATTTTAAATGAGAACATTTAAGAAAAGAT 711  
QY 361 TATGCTCGGTACAGTAAAGAGAGAAATGAGATGATGGATAGAGACCTAGGAGATGAA 420  
DB 712 TATGCTCGGTACAGTAAAGAGAGAAATGAGATGATGGATAGAGACCTAGGAGATGAA 771  
QY 421 TATGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCACCCACCTGATATTT 480  
DB 772 TATGATGGAACAGGTGTCATGGAGATGATTTTAGACCATCAAGTCACCCACCTGATATTT 831  
QY 481 TCCTCTCTGATTTGGTTCTGGATGTCAGATATTTGCTGTCCTCTCATCGTTATTTGTT 540  
DB 832 TCCTCTCTGATTTGGTTCTGGATGTCAGATATTTGCTGTCCTCTCATCGTTATTTGTT 891  
QY 541 GCAATGATAGAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATTTTGTG 600  
DB 892 GCAATGATAGAGATTTATATCTAGAGAGGGATCAATGCTCAGTACAGCCATTTTGTG 951  
QY 601 TATGCTGCTAGTCTCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGAGAA 660  
DB 952 TATGCTGCTAGTCTCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGAGAA 1011  
QY 661 GGAAGGATGGAATAAGCAGATGTTTATTTGGGCAATTCCTTTATCCAGCTATGTTGTT 720  
DB 1012 GGAAGGATGGAATAAGCAGATGTTTATTTGGGCAATTCCTTTATCCAGCTATGTTGTT 1071  
QY 721 GGCACCTGCTTCTTCATCAATTTTCAAGCCATTTATACCATGCTTCAAGAGCCATTCCT 780  
DB 1072 GGCACCTGCTTCTTTCATCAATTTTCAAGCCATTTATTTACCATGCTTCAAGAGCCATTCCT 1131  
QY 781 TTTGGAACAATGGTGGCCGTTTGTGTCATCTGTTTTTTTGTGTTTATTTCTCTCTAAATCTT 840  
DB 1132 TTTGGAACAATGGTGGCCGTTTGTGTCATCTGTTTTTTTGTGTTTATTTCTCTCTAAATCTT 1191  
QY 841 GTTGTGACAAATCTTGGCCGAAATCTGTCAGTCTAGCCCAACTTTCTTCTGCTGCTCAAT 900  
DB 1192 GTTGTGACAAATCTTGGCCGAAATCTGTCAGTCTAGCCCAACTTTCTTCTGCTGCTCAAT 1251  
QY 901 GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGGAGCCCTGCGGTATTTGTTGTC 960  
DB 1252 GCTGTGCTCTGCTCTATACCGGAGAAAAATGGTTTCATGGAGCCCTGCGGTATTTGTTGTC 1311  
QY 961 CTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATTTGAAATGTAATTTCACTCTTCACTCT 1020  
DB 1312 CTGGGTGGAATTTTACCTTTTGGTTCATCTTTTATTTGAAATGTAATTTCACTCTTCACTCT 1371  
QY 1021 TTCTGGGCATATAAGATCTATTTATGCTTATGCTTTCATGATGCTGCTGCTGTTATCTCTG 1080

Db 1372 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGGTGGTATCTCTG 1431  
Qy 1081 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAAGAAT 1140  
Db 1432 TGCATTGTGACTGTCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAAGAAT 1491  
Qy 1141 TACCGGTGGCAATGGACAAAGTTTTCTCTCTCTGTCATCACTGCAATCTATGTTTACATG 1200  
Db 1492 TACCGGTGGCAATGGACAAAGTTTTCTCTCTCTGTCATCACTGCAATCTATGTTTACATG 1551  
Qy 1201 TATTCCCTTTTACTACTATTTTTCAAAACAAGATGTATGGCTTATTTTCAAACATCATTT 1260  
Db 1552 TATTCCCTTTTACTACTATTTTTCAAAACAAGATGTATGGCTTATTTTCAAACATCATTT 1611  
Qy 1261 TACTTTGGATATATGGCGGTATTTTAGCACACCTTTGGGGATAAATGTGTGGAGCGATT 1317  
Db 1612 TACTTTGGATATATGGCGGTATTTTAGCACACCTTTGGGGATAAATGTGTGGAGCGATT 1668

## RESULT 4

US-10-277-802-29  
; Sequence 29, Application US/10277802  
; Publication No. US20030190707A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: P5723P1  
; CURRENT APPLICATION NUMBER: US/10/277,802  
; CURRENT FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 09/915,582  
; PRIOR FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-277-802-29

Query Match 100.0%; Score 1317; DB 6; Length 3076;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTACATAGATGATTTTACCAATATGGGGTATTTGTTGGTGGAGGCTGATGAAATGGAGAA 60  
Db 352 ATGTACATAGATGATTTTACCAATATGGGGTATTTGTTGGTGGAGGCTGATGAAATGGAGAA 411  
Qy 61 GATTACTATCTTTTGGACCTATAAAAACCTTGAATAGGTTTTTAATGGAATCGAATTTGTT 120  
Db 412 GATTACTATCTTTTGGACCTATAAAAACCTTGAATAGGTTTTTAATGGAATCGAATTTGTT 471  
Qy 121 GATGTTAATCTTAAGTAGTGAAGAAAGGTGAACTGGTTTCCAAATCTATAAATCCAGATG 180  
Db 472 GATGTTAATCTTAAGTAGTGAAGAAAGGTGAACTGGTTTCCAAATCTATAAATCCAGATG 531  
Qy 181 TCATATTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAAGATCGATTTGACAAATAT 240  
Db 532 TCATATTCAGTAAATGAAAAAGTCAGATGTGAAATTTGAAAGATCGATTTGACAAATAT 591  
Qy 241 CTTGATCCGTCCTTTTTCACATCGGATTCATTGGTTTTTCAATTTTCAACTCCTTCATG 300

RESULT 5

US-10-896-972-29

RESULT 6  
US-09-814-353-21837  
; Sequence 21837, Application US/09814353  
; Publication No. US20030165831A1  
; GENERAL INFORMATION:  
; APPLICANT: Lee, John  
; APPLICANT: Thompson, Pamela  
; APPLICANT: Lillie, James  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; TITLE OF INVENTION: THERAPY OF OVARIAN CANCER  
; FILE REFERENCE: MRI-006B  
; CURRENT APPLICATION NUMBER: US/09/814,353  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: US 60/191,031  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: US 60/207,124  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: US 60/211,940  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: US 60/216,820  
; PRIOR FILING DATE: 2000-07-07  
; PRIOR APPLICATION NUMBER: US 60/220,661

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; PRIOR FILING DATE: 2000-07-25
; PRIOR APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 22037
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21837
; LENGTH: 3508
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 3506, 3507, 3508
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-21837

Query Match      100.0%; Score 1317; DB 3; Length 3508;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGTATGAAATGGAGAA 60
Db 410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGTATGAAATGGAGAA 469

Qy 61 GATTACTATCTTTGACCTATAAAACTTCGAAATAGTATTTTAAATGGAATCGAATTGTT 120
Db 470 GATTACTATCTTTGACCTATAAAACTTCGAAATAGTATTTTAAATGGAATCGAATTGTT 529

Qy 121 GATGTTAATCTAATCTAGTGAAGAGAAAGGTGAAACTGGTTTCCAAATACCTAAATCCAGATG 180
Db 530 GATGTTAATCTAATCTAGTGAAGAGAAAGGTGAAACTGGTTTCCAAATACCTAAATCCAGATG 589

Qy 181 TCATATTTCAGTAAATGGAAGTACAGATGTGAAATTTGAAAGATCGAATTTGACAAATAT 240
Db 590 TCATATTTCAGTAAATGGAAGTACAGATGTGAAATTTGAAAGATCGAATTTGACAAATAT 649

Qy 241 CTTGATCGTCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAATCTCCCTCATG 300
Db 650 CTTGATCGTCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAATCTCCCTCATG 709

Qy 301 ATGTGATCTTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAGAAAAAGAT 360
Db 710 ATGTGATCTTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAGAAAAAGAT 769

Qy 361 TATGCTCGGTACAGTAAAGAGAAAGAAATGATGATATGGATAGAGACCTAGGAGATGAA 420
Db 770 TATGCTCGGTACAGTAAAGAGAAAGAAATGATGATATGGATAGAGACCTAGGAGATGAA 829

Qy 421 TATGATGGAACACAGTGCATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 480
Db 830 TATGATGGAACACAGTGCATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 889

Qy 481 TCCTCTCTGATTTGTTCTGGATGTGAGATTTCTGCTGTCTCTCATCGTTATTATTGTT 540
Db 890 TCCTCTCTGATTTGTTCTGGATGTGAGATTTCTGCTGTCTCTCATCGTTATTATTGTT 949

Qy 541 GCAATGATAGAAGATTTATATACCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 950 GCAATGATAGAAGATTTATATACCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009

Qy 601 TATGCTGCTAGTCTCCAGTGAATGTTTATTTTCGAGGAGTCTGATGCTAGCAAGGA 660
Db 1010 TATGCTGCTAGTCTCCAGTGAATGTTTATTTTCGAGGAGTCTGATGCTAGCAAGGA 1069

Qy 661 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTTCTTATCCAGCTATGGTGTG 720
Db 1070 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTTCTTATCCAGCTATGGTGTG 1129

Qy 721 GGCACTGGCTTCTTCATCAATTTTCATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 780
Db 1130 GGCACTGGCTTCTTTCATCAATTTTCATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 1189

Qy 781 TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTCTTCTCTTAATCTT 840
Db 1190 TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTCTTCTCTTAATCTT 1249

Qy 841 GTTGGTACAATACTTTGGCCGAAATCTGTCAAGTCAGCCCAACTTTTCTTGTGTCATCAAT 900
Db 1250 GTTGGTACAATACTTTGGCCGAAATCTGTCAAGTCAGCCCAACTTTTCTTGTGTCATCAAT 1309

Qy 901 GCTGTGCTCTCTATACCCGAGAAAAATGTTTCATGAGCCCTGGGGTTATTGTTTGC 960
Db 1310 GCTGTGCTCTCTATACCCGAGAAAAATGTTTCATGAGCCCTGGGGTTATTGTTTGC 1369

Qy 961 CTGGGTGGAATTTTACCTTTGGTTCAATCTTTTATTTGAAATGATTTTCACTTACCGTCT 1020
Db 1370 CTGGGTGGAATTTTACCTTTGGTTCAATCTTTTATTTGAAATGATTTTCACTTACCGTCT 1429

Qy 1021 TTTCTGGGCATATAAGATCTATTATGCTATGCTGCTTCAATGATGCTGGTGTCTGTTATCCTG 1080
Db 1430 TTTCTGGGCATATAAGATCTATTATGCTATGCTGCTTCAATGATGCTGGTGTCTGTTATCCTG 1489

Qy 1081 TGCATTTGCTGCTCTGCTGACTATTTGTTGTCACATATTTTCTACTAAATGCAAGAT 1140
Db 1490 TGCATTTGCTGCTCTGCTGACTATTTGTTGTCACATATTTTCTACTAAATGCAAGAT 1549

Qy 1141 TACCGGTGCAATGCAAGTCTTCTCTGCTGCTGCAATCAACTGCAATCTATGTTTACATG 1200
Db 1550 TACCGGTGCAATGCAAGTCTTCTCTGCTGCTGCAATCAACTGCAATCTATGTTTACATG 1609

Qy 1201 TATTTCTTTTACTACTATTTTTCAAAAACAAGATGATGCTGCTTATTTTCAAAACATCATTT 1260
Db 1610 TATTTCTTTTACTACTATTTTTCAAAAACAAGATGATGCTGCTTATTTTCAAAACATCATTT 1669

Qy 1261 TACTTTGGATATATGCGGTTATTTAGCACAGCCCTGGGGATTAATGTTGGAGCGATT 1317
Db 1670 TACTTTGGATATATGCGGTTATTTAGCACAGCCCTGGGGATTAATGTTGGAGCGATT 1726

RESULT 7
US-10-198-846-10005
; Sequence 10005, Application US/10198846
; Publication No. US20030099974A1
; GENERAL INFORMATION:
; APPLICANT: Lillie, James
; APPLICANT: Xu, Yongyao
; APPLICANT: Wang, Youzhen
; APPLICANT: Steinmann, Kathleen
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS
; TITLE OF INVENTION: FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF BREAST CANCER
; FILE REFERENCE: MRI-049
; CURRENT APPLICATION NUMBER: US/10/198,846
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: 60/306,220
; PRIOR FILING DATE: 2001-07-18
; NUMBER OF SEQ ID NOS: 14084
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10005
; LENGTH: 4024
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 1, 2, 4021, 4022, 4023, 4024
; OTHER INFORMATION: n = A,T,C or G
US-10-198-846-10005

Query Match      100.0%; Score 1317; DB 5; Length 4024;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1317; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGTATGAAATGGAGAA 60
Db 410 ATGTACATAGATGATTTACCAATATGGGGTATTGTTGGTGAGGCTGTATGAAATGGAGAA 469

Qy 61 GATTACTATCTTTGACCTATAAAACTTCGAAATAGTATTTTAAATGGAATCGAATTGTT 120
Db 470 GATTACTATCTTTGACCTATAAAACTTCGAAATAGTATTTTAAATGGAATCGAATTGTT 529

Qy 121 GATGTTAATCTAATCTAGTGAAGAGAAAGGTGAAACTGGTTTCCAAATACCTAAATCCAGATG 180
Db 530 GATGTTAATCTAATCTAGTGAAGAGAAAGGTGAAACTGGTTTCCAAATACCTAAATCCAGATG 589

Qy 181 TCATATTTCAGTAAATGGAAGTACAGATGTGAAATTTGAAAGATCGAATTTGACAAATAT 240
Db 590 TCATATTTCAGTAAATGGAAGTACAGATGTGAAATTTGAAAGATCGAATTTGACAAATAT 649

Qy 241 CTTGATCGTCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAATCTCCCTCATG 300
Db 650 CTTGATCGTCCTTTTTCACATCGGATTCATTTGTTTTCATTTTCAATCTCCCTCATG 709

Qy 301 ATGTGATCTTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAGAAAAAGAT 360
Db 710 ATGTGATCTTTCTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACTTAAGAAAAAGAT 769

Qy 361 TATGCTCGGTACAGTAAAGAGAAAGAAATGATGATATGGATAGAGACCTAGGAGATGAA 420
Db 770 TATGCTCGGTACAGTAAAGAGAAAGAAATGATGATATGGATAGAGACCTAGGAGATGAA 829

Qy 421 TATGATGGAACACAGTGCATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 480
Db 830 TATGATGGAACACAGTGCATGGAGATGATTTAGACCATCAAGTCAACCCACTGATATTT 889

Qy 481 TCCTCTCTGATTTGTTCTGGATGTGAGATTTCTGCTGTCTCTCATCGTTATTATTGTT 540
Db 890 TCCTCTCTGATTTGTTCTGGATGTGAGATTTCTGCTGTCTCTCATCGTTATTATTGTT 949

Qy 541 GCAATGATAGAAGATTTATATACCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 950 GCAATGATAGAAGATTTATATACCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009

Qy 601 TATGCTGCTAGTCTCCAGTGAATGTTTATTTTCGAGGAGTCTGATGCTAGCAAGGA 660
Db 1010 TATGCTGCTAGTCTCCAGTGAATGTTTATTTTCGAGGAGTCTGATGCTAGCAAGGA 1069

Qy 661 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTTCTTATCCAGCTATGGTGTG 720
Db 1070 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTTCTTATCCAGCTATGGTGTG 1129

Qy 721 GGCACTGGCTTCTTCATCAATTTTCATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 780
Db 1130 GGCACTGGCTTCTTTCATCAATTTTCATAGCCATTTTATACCATGCTTCAAGAGCCATTCCT 1189

Qy 781 TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTCTTCTCTTAATCTT 840
Db 1190 TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATTCTTCTCTTAATCTT 1249
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Db 470 GATTACTATCTTTGGACCTTATATAAACTTGAATAAGTGTAAATCGAAATCGAATGTT 529  
Qy 121 GATGTTAATCTAAGTGAAGGAGGTAAGTGTTCCTCAAAATCTAATAATCCAGATG 180  
Db 530 GATGTTAATCTAAGTGAAGGAGGTAAGTGTTCCTCAAAATCTAATAATCCAGATG 589  
Qy 181 TCATATTCAGTAAATGGAAGAGTCAAGTGTGAATTTGAAGATCGATTTGACAAATAT 240  
Db 590 TCATATTCAGTAAATGGAAGAGTCAAGTGTGAATTTGAAGATCGATTTGACAAATAT 649  
Qy 241 CTGATCCGCTCTTTTCAACATCGGATCTATGTTTTCATTTCAATCTCCCTCATG 300  
Db 650 CTGATCCGCTCTTTTCAACATCGGATCTATGTTTTCATTTCAATCTCCCTCATG 709  
Qy 301 ATGGTGATCTCTCTGGTGGCTTAGTTCAATGATTTTAATGAGAACATTAAGAAAGAT 360  
Db 710 ATGGTGATCTCTCTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAGAT 769  
Qy 361 TATGCTCGGTACAGTAAAGAGGAGAAATGGATGATGATGGATAGAGACCTAGGAGATGA 420  
Db 770 TATGCTCGGTACAGTAAAGAGGAGAAATGGATGATGATGGATAGAGACCTAGGAGATGA 829  
Qy 421 TATGATGGAACAGGTGATCGAGATGATTTAGACCATCAAGTCAACCTGATATTT 480  
Db 830 TATGATGGAACAGGTGATCGAGATGATTTAGACCATCAAGTCAACCTGATATTT 889  
Qy 481 TCCTCTCTGATGTTCTGGATGTCAGATATTTGCTGTCTCTCATCGTTATTTATGTT 540  
Db 890 TCCTCTCTGATGTTCTGGATGTCAGATATTTGCTGTCTCTCATCGTTATTTATGTT 949  
Qy 541 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600  
Db 950 GCAATGATAGAGATTTATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 1009  
Qy 601 TATGCTGCTACTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGA 660  
Db 1010 TATGCTGCTACTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGA 1069  
Qy 661 GGAAGGAGATGATTAAGCAGATGTTTATGGGCAATTCCTTATCCAGCTATGTTGT 720  
Db 1070 GGAAGGAGATGATTAAGCAGATGTTTATGGGCAATTCCTTATCCAGCTATGTTGT 1129  
Qy 721 GGCACCTGCTCTCATCAATTTCTAGCCATTTATACCATGCTTCAAGAGCCATTCCT 780  
Db 1130 GGCACCTGCTCTCATCAATTTCTAGCCATTTATACCATGCTTCAAGAGCCATTCCT 1189  
Qy 781 TTTGGAACAAATGGTGGCCGTTTGTGCATCTGTTTTTTTGTATTTCTCTCTAAATCTT 840  
Db 1190 TTTGGAACAAATGGTGGCCGTTTGTGCATCTGTTTTTTTGTATTTCTCTCTAAATCTT 1249  
Qy 841 GTTGATCAATATCTTGGCGAATCTGTCAGTCAAGCCCACTTCTTGTGTCAT 900  
Db 1250 GTTGATCAATATCTTGGCGAATCTGTCAGTCAAGCCCACTTCTTGTGTCAT 1309  
Qy 901 GCTGTGCTCGCTCTATACCGAGAAAAATGGTTTCATGGAGCTCGCGTTATGTTGC 960  
Db 1310 GCTGTGCTCGCTCTATACCGAGAAAAATGGTTTCATGGAGCTCGCGTTATGTTGC 1369  
Qy 961 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTTGAAGATATTTCACTTCAAGTCT 1020  
Db 1370 CTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTTGAAGATATTTCACTTCAAGTCT 1429  
Qy 1021 TTCTGGGCATATAAGATCTATTTATGTCATGCTCATGCTGCTGCTGTTATCTG 1080  
Db 1430 TTCTGGGCATATAAGATCTATTTATGTCATGCTCATGCTGCTGCTGTTATCTG 1489  
Qy 1081 TGCAATTGTGACTGTCTGTGACTATTTGTGTCACATATTTTCTACTAAATGCAAGAT 1140  
Db 1490 TGCAATTGTGACTGTCTGTGACTATTTGTGTCACATATTTTCTACTAAATGCAAGAT 1549  
Qy 1141 TACCGGTGGCAATGGAAGTTTCTCTGCTGCTCAATCACTGCAATCTATGTTTACATG 1200

Db 1550 TACCGGTGGCAATGGAACAAGTTTTCTCTCTGCTGCATCAATGCAATCTATGTTTACATG 1609  
Qy 1201 TATTCCTTTTACTACTATTTTCAAAACAAGATGATGCTTATTTCAAAACATCAATTT 1260  
Db 1610 TATTCCTTTTACTACTATTTTCAAAACAAGATGATGCTTATTTCAAAACATCAATTT 1669  
Qy 1261 TACTTTGATATATGCGGCTATTTAGCACAGCCTTTGGGGATAAATGTGTGGAGCGATT 1317  
Db 1670 TACTTTGATATATGCGGCTATTTAGCACAGCCTTTGGGGATAAATGTGTGGAGCGATT 1726

RESULT 8  
US-09-374-046A-25  
; Sequence 25, Application US/09374046A  
; Publication No. US20030096951A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M.  
; APPLICANT: LaVallie, Edward R.  
; APPLICANT: Collins-Racie, Lisa A.  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Agostino, Michael J.  
; APPLICANT: Steinger II, Robert J.  
; APPLICANT: Spaulding, Vikki  
; APPLICANT: Wong, Gordon G.  
; APPLICANT: Clark, Hilary  
; APPLICANT: Fechtel, Kim  
; APPLICANT: Genetics Institute, Inc.  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: GI 6075-83A  
; CURRENT APPLICATION NUMBER: US/09/374,046A  
; CURRENT FILING DATE: 1999-08-13  
; NUMBER OF SEQ ID NOS: 240  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 25  
; LENGTH: 3370  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-374-046A-25

Query Match 99.9%; Score 1315.4; DB 3; Length 3370;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ATGTACATAGATGATTTACCAATATGCGGTATTTGTTGAGGCTGATGAAATCGAGAA 60  
Db 353 ATGTACATAGATGATTTACCAATATGCGGTATTTGTTGAGGCTGATGAAATCGAGAA 412  
Qy 61 GATTACTATCTTTCGACCTATAAAAACTTCAAAATAGGTTTTTAATGGAAATCGAATGTT 120  
Db 413 GATTACTATCTTTCGACCTATAAAAACTTCAAAATAGGTTTTTAATGGAAATCGAATGTT 472  
Qy 121 GATGTTAATCTAACTAGTGAAGGAAAGTGGTTTCCAAATACCTAAATCCAGATG 180  
Db 473 GATGTTAATCTAACTAGTGAAGGAAAGTGGTTTCCAAATACCTAAATCCAGATG 532  
Qy 181 TCATATTCAGTAAATGGAAGAGTCAAGATGTAATTTGAAGATCGAATTTGACAAATAT 240  
Db 533 TCATATTCAGTAAATGGAAGAGTCAAGATGTAATTTGAAGATCGAATTTGACAAATAT 592  
Qy 241 CTTCATCGCTCTTTTTCACATCGGATTCATTTGTTTCAATTTTCAACTCCCTTCATG 300  
Db 593 CTTCATCGCTCTTTTTCACATCGGATTCATTTGTTTCAATTTTCAACTCCCTTCATG 652  
Qy 301 ATGTTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAGAT 360  
Db 653 ATGTTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAAATTAAGAAAGAT 712  
Qy 361 TATGCTCGGTACAGTAAAGAGGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 420  
Db 713 TATGCTCGGTACAGTAAAGAGGAAATGATGATGATGATGATGATGATGATGATGATGATGAT 772

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QY 421 TATGATGGAACAGGTGCGATGGAGATGATATTTAGACCATCAAGTCAACCACTGATATTT 480
Db 773 TATGATGGAACAGGTGCGATGGAGATGATATTTAGACCATCAAGTCAACCACTGATATTT 832
QY 481 TCCTCTCGATGTTGTTCTGAGATGTCAGATATTTCTGTCCTCCTCATCGTTATTTGTT 540
Db 833 TCCTCTCGATGTTGTTCTGAGATGTCAGATATTTCTGTCCTCCTCATCGTTATTTGTT 892
QY 541 GCAATGATAGAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 893 GCAATGATAGAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 952
QY 601 TATGCTGCTAGCTCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
Db 953 TATGCTGCTAGCTCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012
QY 661 GGAAGGAGATGATATAAGCAGATGTTTATTTGGGCGATTTCTTATCCAGCTATGCTGT 720
Db 1013 GGAAGGAGATGATATAAGCAGATGTTTATTTGGGCGATTTCTTATCCAGCTATGCTGT 1072
QY 721 GGCACTGCTCTTCTCATCAATTTTATAGCCCAATTTTATACCATGCTTCAAGAGCCATTCCT 780
Db 1073 GGCACTGCTCTTCTCATCAATTTTATAGCCCAATTTTATACCATGCTTCAAGAGCCATTCCT 1132
QY 781 TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATCTTCTCTAAATCTT 840
Db 1133 TTTGGAACAATGGTGGCGGTTTGTGTCATCTGTTTTTTTGTATCTTCTCTAAATCTT 1192
QY 841 GTTGGTCAATACATTTGGCGGAAATCTGTGAGTCCAGCCCAATTTCTGTGTCGATCAAT 900
Db 1193 GTTGGTCAATACATTTGGCGGAAATCTGTGAGTCCAGCCCAATTTCTGTGTCGATCAAT 1252
QY 901 GCTGTGCTCTCTCTATACCGGAGAAAAATGGTTTATGAGGCTGCGGTTATTTGTTGC 960
Db 1253 GCTGTGCTCTCTCTATACCGGAGAAAAATGGTTTATGAGGCTGCGGTTATTTGTTGC 1312
QY 961 CTGGGTGGAATTTTACCTTTTGGTTTCAATCTTTATGAAATGATATTTTCACTTCACTCT 1020
Db 1313 CTGGGTGGAATTTTACCTTTTGGTTTCAATCTTTATGAAATGATATTTTCACTTCACTCT 1372
QY 1021 TTCTGGGCATATAAGATCTATTATGCTCTATGGCTTCAATGCTGCTGCTGCTGCTGCTGCTG 1080
Db 1373 TTCTGGGCATATAAGATCTATTATGCTCTATGGCTTCAATGCTGCTGCTGCTGCTGCTGCTG 1432
QY 1081 TGCATTTGACTGCTGTGTGACTATTGTGTGACATATTTTCTACTAAATGCAAGAAGAT 1140
Db 1433 TGCATTTGACTGCTGTGTGACTATTGTGTGACATATTTTCTACTAAATGCAAGAAGAT 1492
QY 1141 TACCGGTGGCAATGGACAAAGTTTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1200
Db 1493 TACCGGTGGCAATGGACAAAGTTTCTCTGCTGCATCAACTGCAATCTATGTTTACATG 1552
QY 1201 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGATGCTTATTTTCAAAACATCAAT 1260
Db 1553 TATTCCTTTTACTACTATTTTTTCAAAACAAAGATGATGCTTATTTTCAAAACATCAAT 1612
QY 1261 TACTTTGGATATATGGCGGTTATTTAGCACAGCCTTGGGGATAATGCTGGAGCGAAT 1317
Db 1613 TACTTTGGATATATGGCGGTTATTTAGCACAGCCTTGGGGATAATGCTGGAGCGAAT 1669
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## RESULT 9

US-10-616-263-25

; Sequence 25, Application US/10616263

; Publication No. US20040038276A1

; GENERAL INFORMATION:

; APPLICANT: Jacobs, Kenneth

; APPLICANT: McCoy, John M.

; APPLICANT: LaVallie, Edward R.

; APPLICANT: Collins-Racie, Lisa A.

; APPLICANT: Evans, Cheryl

; APPLICANT: Merberg, David

```
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000103.5
; CURRENT APPLICATION NUMBER: US/10/616,263
; CURRENT FILING DATE: 2003-07-08
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3370
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-616-263-25
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Query Match 99.9%; Score 1315.4; DB 7; Length 3370;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 1316; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 ATGTACATAGATGATTTTACCAATATGGGGTATTTGTTGGTGAGGCTGATGAAATGGAGAA 60
Db 353 ATGTACATAGATGATTTTACCAATATGGGGTATTTGTTGGTGAGGCTGATGAAATGGAGAA 412
QY 61 GATTACTATCTTTTGGACCTATAAAAACTTGAATAGTTTAAATGAAATCGAATTTGTT 120
Db 413 GATTACTATCTTTTGGACCTATAAAAACTTGAATAGTTTAAATGAAATCGAATTTGTT 472
QY 121 GATGTTAAATCTAACTAGTGAAGGAAAGTGAAACTGTTCCAAATCTCTAAATCCAGATG 180
Db 473 GATGTTAAATCTAACTAGTGAAGGAAAGTGAAACTGTTCCAAATCTCTAAATCCAGATG 532
QY 181 TCATATTCAGTAAATGGAAAAAGTCAGATGTAATTTGAAGATCGATTTGACAAATAT 240
Db 533 TCATATTCAGTAAATGGAAAAAGTCAGATGTAATTTGAAGATCGATTTGACAAATAT 592
QY 241 CTTGATCCGTCCTTTTCAACATCGAATTCATTTGGTTTCAATTTTCAACTCTCTTCATG 300
Db 593 CTTGATCCGTCCTTTTCAACATCGAATTCATTTGGTTTCAATTTTCAACTCTCTTCATG 652
QY 301 ATCGTGATCTTCTTGGTGGCTTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGAT 360
Db 653 ATCGTGATCTTCTTGGTGGCTTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAAGAT 712
QY 361 TATGCTCGGTACAGTAAAGAGGGAAGATGATGATGATGATGATGATGATGATGATGATGAA 420
Db 713 TATGCTCGGTACAGTAAAGAGGGAAGATGATGATGATGATGATGATGATGATGATGATGAA 772
QY 421 TATGGATGGAACACAGGTGCAATGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTT 480
Db 773 TATGGATGGAACACAGGTGCAATGGAGATGATTTTAGACCATCAAGTCAACCACTGATATTT 832
QY 481 TCCTCTCTGATTCGGTTCTGGATGTCAGATATTTTGTGTGTCCTCATCGTTATTTATTTGTT 540
Db 833 TCCTCTCTGATTCGGTTCTGGATGTCAGATATTTTGTGTGTCCTCATCGTTATTTATTTGTT 892
QY 541 GCAATGATAGAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 600
Db 893 GCAATGATAGAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGTC 952
QY 601 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 660
Db 953 TATGCTGCTACGTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAAGGA 1012
QY 661 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGCTGTGT 720
Db 1013 GGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTATGCTGTGT 1072
QY 721 GGCACTGCTCTTCTTCTCATCAATTTTATACCATGATTTTATACCATGCTTCAAGAGCCATTCCT 780
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Db 1073 GGCACCTGCTCTCTCATCAATTTTCATAGCAATTTATACCAATTTATAGAGCCATTCCT 1132
Qy 781 TTGGAACAATGGTGGCGTGTGGTGGATCTGTTTTTTTGTATTTCTTCCTCTAAATCTT 840
Db 1133 TTGGAACAATGGTGGCGTGTGGTGGATCTGTTTTTTTGTATTTCTTCCTCTAAATCTT 1192
Qy 841 GTTGTGACAAATCTTGGCGGAATCTGTACAGTCAAGCCCAACTTTCCCTTGTGCTCAAT 900
Db 1193 GTTGTGACAAATCTTGGCGGAATCTGTACAGTCAAGCCCAACTTTCCCTTGTGCTCAAT 1252
Qy 901 GCTGTGCTCGTCTATACCGGAGAAAAAATGGTTTCATGGAGCCCTGCGTTATTTGTC 960
Db 1253 GCTGTGCTCGTCTATACCGGAGAAAAAATGGTTTCATGGAGCCCTGCGTTATTTGTC 1312
Qy 961 CTGGGTGGAAATTTTACCTTTTGGTTCAATCTTTATTTGAATGTATTTTCATCTTCAGTCT 1020
Db 1313 CTGGGTGGAAATTTTACCTTTTGGTTCAATCTTTATTTGAATGTATTTTCATCTTCAGTCT 1372
Qy 1021 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATCTGGTCTGGTTATCTCTG 1080
Db 1373 TTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATCTGGTCTGGTTATCTCTG 1432
Qy 1081 TGCAATGTGACTGTCTGTGTGACTATTTGTGACATATTTTCTACTAAATGCAGAAGAT 1140
Db 1433 TGCAATGTGACTGTCTGTGTGACTATTTGTGACATATTTTCTACTAAATGCAGAAGAT 1492
Qy 1141 TACCGTGGCAATGACAAAGTTTCTCTCTGCTGATCACTGCAATCTATGTTTACATG 1200
Db 1493 TACCGTGGCAATGACAAAGTTTCTCTCTGCTGATCACTGCAATCTATGTTTACATG 1552
Qy 1201 TATTCCTTTTACTACTATTTTTCAAAACAAGATGTATGGCTATTTTCAAAACATCAATT 1260
Db 1553 TATTCCTTTTACTACTATTTTTCAAAACAAGATGTATGGCTATTTTCAAAACATCAATT 1612
Qy 1261 TACTTTGGATATATGCGGTATTTTAGCACAGCTTTGGGGATAATGTGGAGCGATT 1317
Db 1613 TACTTTGGATATATGCGGTATTTTAGCACAGCTTTGGGGATAATGTGGAGCGATT 1669
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## RESULT 10

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US-10-205-219-122
; Sequence 122, Application US/10205219
; Publication No. US20030138803A1
; GENERAL INFORMATION:
; APPLICANT: Warner-Lambert Company
; APPLICANT: Lee, Kevin
; APPLICANT: Dixon, Alistair
; APPLICANT: Brooksbank, Robert
; APPLICANT: Pinnoch, Robert
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain
; FILE REFERENCE: WL-A-018200
; CURRENT APPLICATION NUMBER: US/10/205,219
; CURRENT FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: GB 0118354.0
; PRIOR FILING DATE: 2001-07-27
; NUMBER OF SEQ ID NOS: 197
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 122
; LENGTH: 3389
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: EP70-P-iso
US-10-205-219-122
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Query Match 93.1%; Score 1226; DB 6; Length 3389;
Best Local Similarity 98.6%; Pred No. 1.2e-292;
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

Qy 1 ATGTACATAGATGATTTACCAATATGGGTATTTGTTGGAGCGCTGATGAAAAATGCAGAA 60
Db 410 ATGTACATAGATGATTTACCAATATGGGTATTTGTTGGAGCGCTGATGAAAAATGCAGAA 469
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Qy 61 GATTACTATCTTTGGACCTATAAAAAAGCTTGAATAGGTTTTTAATGGAAAAATCGAATTGTT 120
Db 470 GATTACTATCTTTGGACCTATAAAAAAGCTTGAATAGGTTTTTAATGGAAAAATCGAATTGTT 529
Qy 121 GATGTTAATCTAACTAGTGAAGGAAAGTGAAGCT -GGTCCAAATACTAAAAATCCAGAT 179
Db 530 GATGTTAATCTAACTAGTGAAGGAAAGTGAAGCTGGGTTCCAAATACTATAATCCAGAT 589
Qy 180 GTCATATTCACTAAAAATGGAAGAGTCAAGTGTGAAATTTGAAGATCAATTTGACAAATA 239
Db 590 GTCATATTCACTAAAAATGGAAGTCAAGTGTGAAATTTGAAGATCAATTTGAC -AATA 647
Qy 240 TCTTGATCCGTCCTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAATCTCTTCAT 299
Db 648 TCTTGATC -GTCCCTTTTCAACATCGGATTCATTGGTTTTCAATTTTCAATCTCTTCAT 705
Qy 300 GATGGTGATCTTCTGGTGGCTTTAGTTTCAATGATTTTAAATGAGAAACATTTAAGAAAAA 359
Db 706 GATGGTGATCTTCTGGTGGCTTTAGTTTCAATGATTTTAAATGAGAAACATTTAAGAAAAA 765
Qy 360 TTATGCTCGGTACAGTAAAGAGGAAAGATCGATGATATGATAGACCATCAAGTCACCCACTGATAT 419
Db 766 TTATGCTCGGTACAGTAAAGAGGAAAGATCGATGATATGATAGACCATCAAGTCACCCACTGATAT 825
Qy 420 ATATGGATGGAACACAGTGCATGGAGATGATTTTAGACCATCAAGTCACCCACTGATAT 479
Db 826 ATATGGATGGAACACAGTGCATGGAGATGATTTTAGACCATCAAGTCACCCACTGATAT 885
Qy 480 TTCTCTCTGATTTGGTCTCGGATGTGAGATTTTGGTGTGTCTCTCATCGTTATTTATTTGT 539
Db 886 TTCTCTCTGATTTGGTCTCGGATGTGAGATTTTGGTGTGTCTCTCATCGTTATTTATTTGT 945
Qy 540 TGCAATGATAGAAAGATTTATATCTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGT 599
Db 946 TGCAATGATAGAAAGATTTATATCTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGT 1005
Qy 600 CTATGCTGCTACGTCCTCCAGTGAATGGTTATTTTGGAGGAAAGTCTGATGCTAGACAAG 659
Db 1006 CTATGCTGCTACGTCCTCCAGTGAATGGTTATTTTGGAGGAAAGTCTGATGCTAGACAAG 1065
Qy 660 AGGAAGGAGATGGAATAAGACAGATGTTTATTTGGGGCATTCCTTATCCAGCTATCGTGTG 719
Db 1066 AGGAAGGAGATGGAATAAGACAGATGTTTATTTGGGGCATTCCTTATCCAGCTATG -GGT 1123
Qy 720 TGGCACTGCTCTTCTCATCAATTTTCATAGCCATTTATACCATGCTTCAAGAGCCATTC 779
Db 1124 GTGCACTGCTCTTCTCATCAATTTTCATAGCCATTTATACCATGCTTCAAGAGCCATTC 1183
Qy 780 TTTTGGAAACAATGTTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCT 839
Db 1184 TTTTGGAAACAATGTTGGCGGTTTGTGTCATCTGTTTTTTTGTATTTCTTCTCTAAATCT 1243
Qy 840 TGTGGTACAACTACTTGGCCGAAATCTGTACAGGTCAAGCCCAACTTCTTGTGCGTCAA 899
Db 1244 TGTGGTACAACTACTTGGCCGAAATCTGTACAGGTCAAGCCCAACTTCTTGTGCGTCAA 1303
Qy 900 TGCTGTGCTCTGCTCTATACCGGAGAAAAATGTTTCATGGAGCTCGGTTATTTGTTG 959
Db 1304 TGCTGTGCTCTGCTCTATACCGGAGAAAAATGTTTCATGGAG -CTGCGGTTATTTGTTG 1362
Qy 960 CCTGGTGGAAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGTATTTCACTTCCAGTC 1019
Db 1363 CCTGGTGGAAATTTTACCTTTTGGTTCAATCTTTATTTGAAATGTATTTCACTTCCAGTC 1422
Qy 1020 TTTCTGGGCATATAAGATCTATTATGCTATGGCTTCATATGCTGCTGCTGCTGTTATCCT 1079
Db 1423 TTTCTGGGCATATAAGATCTATTATGCTATGGCTTCATATGCTGCTGCTGCTGTTATCCT 1482
Qy 1080 GTGCAATTTGTGATCTGTCTGTGATCTATTTGTGTGCACATATTTTCTACTAAATGCAGAA 1139
Db 1483 GTGCAATTTGTGATCTGTCTGTGATCTATTTGTGTGCACATATTTTCTACTAAATGCAGAA 1542
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Qy 1140 TTACGGTGGCAATGGACAGTTTTCTCTCTGCTGCACTCAACTGCAATCTATGTTTACAT 1199  
Db 1543 TTACCGTGGCAATGGACAGTTTTCTCTCTGCTGCACTCAACTGCAATCTATGTTTACAT 1602  
Qy 1200 GTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAACATCATTT 1259  
Db 1603 GTATTCCTTTTACTACTATTTTTCAAAACAAAGATGTATGGCTTATTTCAACATCATTT 1662  
Qy 1260 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGGATT 1317  
Db 1663 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGGATT 1720

RESULT 11  
US-10-956-157-2297  
; Sequence 2297, Application US/10956157  
; Publication No. US20050118625A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William  
; TITLE OF INVENTION: NUCLEIC ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH  
; TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES  
; FILE REFERENCE: 031896-043000 (AM 101081)  
; CURRENT APPLICATION NUMBER: US/10/956.157  
; CURRENT FILING DATE: 2004-10-04  
; NUMBER OF SEQ ID NOS: 319805  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 2297  
; LENGTH: 3389  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-956-157-2297

Query Match 93.1%; Score 1226; DB 9; Length 3389;  
Best Local Similarity 98.6%; Pred. No. 1.2e-292;  
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

Qy 1 ATGTACATAGATGATTTTACCAATATGGGGTATTTGGTGAGGCTGATGAAATGGAGAA 60  
Db 410 ATGTACATAGATGATTTTACCAATATGGGGTATTTGGTGAGGCTGATGAAATGGAGAA 469  
Qy 61 GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTATTTTAAATGGAATCGAATTTGT 120  
Db 470 GATTACTATCTTTGGACCTATAAAAACTTGAATAGTGTATTTTAAATGGAATCGAATTTGT 529  
Qy 121 GATGTTAATCTAAGTGTAGGAAAGGTGAACT-GGTTCCAAATCTAAAAATCCAGAT 179  
Db 530 GATGTTAATCTAAGTGTAGGAAAGGTGAACTGGGTTCCAAATCTATAATCCAGAT 589  
Qy 180 GTCATATTCAGTAAATGGAAGAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATA 239  
Db 590 GTCATATTCAGTAAATGGAAGAGTCAGATGTGAAATTTGAAGATCGATTTGAC-AATA 647  
Qy 240 TCTTGATCCGTCCTTTTCAACATCGGATTCATTGGTTTCAATTTTCAACTCCTTCAT 299  
Db 648 TCTTGATC--GTCCTTTTTCACATCGGATTCATTGGTTTCAATTTTCAACTCCTTCAT 705  
Qy 300 GATGGTGATCTTCTTGGTGGCTTGTATTTCAATGATTTTAAATGAGAACATTAAAGAAAGA 359  
Db 706 GATGGTGATCTTCTTGGTGGCTTGTATTTCAATGATTTTAAATGAGAACATTAAAGAAAGA 765  
Qy 360 TTATGCTCGGTACAGTAAAGAGGAGAAATGGATGATGATGATGAGACCTAGAGATGA 419  
Db 766 TTATGCTCGGTACAGTAAAGAGGAGAAATGGATGATGATGATGAGACCTAGAGATGA 825  
Qy 420 ATATGGATGGAACAGGTGATGAGATGTATTTAGACCATCAAGTCAACCCACTGATATT 479  
Db 826 ATATGGATGGAACAGGTGATGAGATGTATTTAGACCATCAAGTCAACCCACTGATATT 885  
Qy 480 TTCTCTCTGATTTGTTCTCGATGTACAGATATTTTGTGCTGTCTCTCATCGTTATTATGT 539  
Db 886 TTCTCTCTGATTTGTTCTCGATGTACAGATATTTTGTGCTGTCTCTCATCGTTATTATGT 945

Qy 540 TGCAATGATAGAGATTTATATATCTGAGAGGGGATCAATGCTCAGTACAGCCATATTGT 599  
Db 946 TGCAATGATAGAGATTTATATATCTGAGAGGGGATCAATGCTCAGTACAGCCATATTGT 1005  
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Db 1006 CTATGCTGCTACCTCTCCAGTGAATGGTTATTTTGGAGGAAGTCTGTATCTAGACAGG 1065  
Qy 660 AGGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCATATGGTGTG 719  
Db 1066 AGGAAGGAGATGGATAAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCATATG 1123  
Qy 720 TGGCACTGCCCTCTTCAATCAATTTATAGCCATTTATACCATGCTTCAAGAGCCATTC 779  
Db 1124 GTGCACTGCCCTCTTCAATCAATTTATAGCCATTTATACCATGCTTCAAGAGCCATTC 1183  
Qy 780 TTTTGGAAACAATGCTGCGCTTTTGGTCACTCTGTTTTTGGTATTTCTCTCTAAATCT 839  
Db 1184 TTTTGGAAACAATGCTGCGCTTTTGGTCACTCTGTTTTTGGTATTTCTCTCTAAATCT 1243  
Qy 840 TGTGTGTACAAATCTTTGGCCGAAATCTGTGAGGTGAGCCCAACTTTCTTGTGTGTCAA 899  
Db 1244 TGTGTGTACAAATCTTTGGCCGAAATCTGTGAGGTGAGCCCAACTTTCTTGTGTGTCAA 1303  
Qy 900 TGCTGTGCTGCTCTATACCGGAGAAAAAATGGTTCATGAGGCTGCGGTATTTGTTTG 959  
Db 1304 TGCTGTGCTGCTCTATACCGGAGAAAAAATGGTTCATGAGG-CTGCGGTATTTGTTTG 1362  
Qy 960 CTTGGGTGGAATTTTACCTTTTGGTTCATCTTTTGAATGTATTTCAATCTTCAAGTC 1019  
Db 1363 CTTGGGTGGAATTTTACCTTTTGGTTCATCTTTTGAATGTATTTCAATCTTCAAGTC 1422  
Qy 1020 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGCTGCTGTTATCCT 1079  
Db 1423 TTTCTGGGCATATAAGATCTATTATGTCTATGGCTTCATGATGCTGCTGCTGTTATCCT 1482  
Qy 1080 GTGCATTTGCACTGCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAGA 1139  
Db 1483 GTGCATTTGCACTGCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAGA 1542  
Qy 1140 TTACCGTGGCAATGGACAAAGTTTCTCTGCTGCACTCAACTGCAATCTATGTTTACAT 1199  
Db 1543 TTACCGTGGCAATGGACAAAGTTTCTCTGCTGCACTCAACTGCAATCTATGTTTACAT 1602  
Qy 1200 GTATTCCTTTTACTACTATTTTCAAAAACAAAGATGTATGGCTTATTTCAAAACATCAT 1259  
Db 1603 GTATTCCTTTTACTACTATTTTCAAAAACAAAGATGTATGGCTTATTTCAAAACATCAT 1662  
Qy 1260 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGGATT 1317  
Db 1663 TTACTTTGGATATATGGCGGTATTTAGCACAGCCTTGGGGATAATGTGTGGAGGATT 1720

RESULT 12  
US-10-287-436A-335  
; Sequence 335, Application US/10287436A  
; Publication No. US20050202421A1  
; GENERAL INFORMATION:  
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER  
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF  
; TITLE OF INVENTION: RHEUMATOID ARTHRITIS  
; FILE REFERENCE: 10872.514696  
; CURRENT APPLICATION NUMBER: US/10/287.436A  
; CURRENT FILING DATE: 2002-10-31  
; PRIOR APPLICATION NUMBER: US 60/336,220  
; PRIOR FILING DATE: 2001-10-31  
; NUMBER OF SEQ ID NOS: 1446  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 335  
; LENGTH: 3389  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-287-436A-335



```
Query Match          93.1%; Score 1226; DB 9; Length 3389;
Best Local Similarity 98.6%; Pred. No. 1.2e-292;
Matches 1300; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

Qy 1 ATGTACATAGATGATTTACCAATATGGGGTATTTGGTGAGGCTGATGAAAATGAGAA 60
Db 410 ATGTACATAGATGATTTACCAATATGGGGTATTTGGTGAGGCTGATGAAAATGAGAA 469

Qy 61 GATTACTATCTTTGGACCTATATAAACTTGAATAGGTTTTTAATGGAATCGAATGTT 120
Db 470 GATTACTATCTTTGGACCTATATAAACTTGAATAGGTTTTTAATGGAATCGAATGTT 529

Qy 121 GATGTTAATCTAACTAGTAGGAAGAGGTGAACCT -GGTTCCAAATACTAAAAATCCAGAT 179
Db 530 GATGTTAATCTAACTAGTAGGAAGAGGTGAACCTGGGTTCCAAATACTAATCCAGAT 589

Qy 180 GTCATATTTCAGTAAATGAAAAGTACAGATGTGAAAATTTGAAGATCGAATTTGACAAATA 239
Db 590 GTCATATTTCAGTAAATGAAAAGTACAGATGTGAAAATTTGAAGATCGAATTTGAC -AATA 647

Qy 240 TCTTGATCGCTCTTTTTCACATCGGATTCATTTGGTTTTCAATTTTCAACTCCTTCAT 299
Db 648 TCTTGATC -GTCCCTTTTTCACATCGGATTCATTTGGTTTTCAATTTTCAACTCCTTCAT 705

Qy 300 GATGCTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGA 359
Db 706 GATGCTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGA 765

Qy 360 TTATGCTCGGTACAGTAAAGAGAGAAAATGATGATATGATAGACACCTAGGAGATGA 419
Db 766 TTATGCTCGGTACAGTAAAGAGAGAAAATGATGATATGATAGACACCTAGGAGATGA 825

Qy 420 ATATGATGGAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT 479
Db 826 ATATGATGGAACAGGTGCATGGAGATGTATTTAGACCATCAAGTCACCCACTGATATT 885

Qy 480 TTCTCTCTGATGTTCTGAGATGTCAGATATTTGCTGTCTCTCATCGTTATTATTGT 539
Db 886 TTCTCTCTGATGTTCTGAGATGTCAGATATTTGCTGTCTCTCATCGTTATTATTGT 945

Qy 540 TGCAATGATAGAAATTTATATCTAGAGAGGGATCAATGCTCAGTACAGACCATATTTGT 599
Db 946 TGCAATGATAGAAATTTATATCTAGAGAGGGATCAATGCTCAGTACAGACCATATTTGT 1005

Qy 600 CTATGCTCTAGCTCTCCAGTGAATGGTTATTTGGAGGAAGTCTGATGCTAGACAAGG 659
Db 1006 CTATGCTCTAGCTCTCCAGTGAATGGTTATTTGGAGGAAGTCTGATGCTAGACAAGG 1065

Qy 660 AGGAAGGAGATGGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATGGTG 719
Db 1066 AGGAAGGAGATGGATAAAGCAGATGTTTATTTGGGCAATTCCTTATCCAGCTATG -GGT 1123

Qy 720 TGGCACTGCCCTTTTCATCAATTTTCATAGCCATTTATACCAGTCTTCAAGAGCCATTC 779
Db 1124 GTGCACTGCCCTTTTCATCAATTTTCATAGCCATTTATACCAGTCTTCAAGAGCCATTC 1183

Qy 780 TTTTGGACAATGGTGGCGTTTGTGCAATCTGTTTTTTTGTATTCTTCTCTAAATCT 839
Db 1184 TTTTGGACAATGGTGGCGTTTGTGCAATCTGTTTTTTTGTATTCTTCTCTAAATCT 1243

Qy 840 TGTGGTACAATACTTGGCCGAAATCTGTAGGTGAGCCCAACTTTCCTGTCGTGTCAA 899
Db 1244 TGTGGTACAATACTTGGCCGAAATCTGTAGGTGAGCCCAACTTTCCTGTCGTGTCAA 1303

Qy 900 TGCTGTGCTCTGCTCTATACCGGAGAAAAATGTTTCATGGAGCCTGCGGTTATTGTTG 959
Db 1304 TGCTGTGCTCTGCTCTATACCGGAGAAAAATGTTTCATGGAG -CTGCGGTTATTGTTG 1362

Qy 960 CTTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAATGATTTTCATCTTCACGTC 1019
Db 1363 CTTGGGTGGAATTTTACCTTTTGGTTCAATCTTTATTTGAATGATTTTCATCTTCACGTC 1422
```

RESULT 13

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US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US20040005559A1
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.
; TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
; FILE REFERENCE: PA-0026-1 CIP
; CURRENT APPLICATION NUMBER: US/10/062.674
; CURRENT FILING DATE: 2002-01-30
; PRIOR APPLICATION NUMBER: US 09/625,102
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 2217
; SOFTWARE: PERL Program
; SEQ ID NO 1697
; LENGTH: 6197
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040005559A1 233927.4
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)... (6197)
; OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697
```

```
Query Match          53.9%; Score 709.6; DB 6; Length 6197;
Best Local Similarity 82.4%; Pred. No. 1.4e-164;
Matches 1135; Conservative 0; Mismatches 165; Indels 77; Gaps 25;
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Qy 15 TTTTACCATATGGGGTATTTGTTGGTGAGGCTGATGAAAATG -GAGAAAGATTACTATCTTT 73
Db 388 TTACCCNATATGGGGTATTTGTTGGTGAGGCTGATGAAAATGCGAAGAGATTACTATCTGT 447

Qy 74 GGACC -TATAAAAACCTTGAAT -AGGTTTTTAATGGAATCGAATGT ------TG 121
Db 448 TGGACCGGTATAAAAAACCTTGAATTTAGGTTTTAACTGGAAATCGGAAGTTGTTGATGTT 507

Qy 122 ATGTTAATCTAACTAGTAGGAAGAGGTGAAATCTGGTTTCCAAATACTAAAAATCCAGATGT 181
Db 508 ATATCTAACTAGTAGGAAGAGAGAGTGAACATGTTTCCAAATACTAAAAATCCAGATGT 567

Qy 182 CATATTCACTAAAAATGAAAAGTGCAG - - -TGGAATTTTGAAGATCGATTTGACAAAT 238
Db 568 CATATTCACTAAAAATGAAAAGTGCAGATTGTGAAATTTGAAGATCGATTTGACAAAT 627

Qy 239 ATCTTGATCCGTC -TTTTTCAACATCGGATTCATTTGGTTTTTCAA - - -TTTTCAACT 292
Db 628 ATCTTGATCCGTCGCTTTTTCACACATCGGATTCATTTGGTTTCTCACATGTTGCAACTC 687

Qy 293 CCTTCATGAT -GGTGATCTTCTTGGT -GGGCTTAGTTTCAATGATTTTAAATGAGAACA - - 348
```

Db 688 GTTCATGATGGTGAATCTCTGTTGGGCTTAGTTTCAATAGATTTAATAGAGACA 747  
Qy -TTAAGAAAAGATTATGCTCGGTACAGTAAAGAGAGAAAATGGATGATATGGATAGAGA 407  
Db TTAAGAAAAGATTATGCTCGGTACAGTAAAGAGAGAAAATGGATGATATGGATAGAGA 807  
Qy CTTAGGAGATGAATATG---GATGGAACACAGGTGCAT--GGAGATGATTTAGACCAT-C 461  
Db CTTAGGAGATGAATATGTTGATGGGAAAACAGGTGCATTTGGAAGATGTATTTAGACCATCC 867  
Qy AAGTCACCCACTGATATTTCTCTCTGATGGTTCTGGGATGTCAGATATTTGCTGTGTC 521  
Db AAGTCACCCACTGATATTTCTCTCTGATGGTTCTGGGATGTCAGATATTTGCTGTGTC 927  
Qy TCTCATCTGTTATTTG--TTGCAATGATAGAGATTTATATACCTGAGAGGGGATCAATGC 580  
Db TCTCATCGTAAATGTTGGCAATGATAGAGATTAATATACCTGAGAGGGGATCAATGC 987  
Qy TCAGTACAGCCATATTTGCTCTATGC-TGCTACGTCCT-CCAGTGAATGGTTATTTTGAGG 638  
Db TCAGTACAGCCATATTTGCTCTAAGCTTGCTACGTCCTCCAGTGAATGGTTATTTTGAGG 1047  
Qy AAGTCGTGATCTAGACAAGGAGGAGATGATGAAGCA-----GATGTTATT 690  
Db AAGCGATACTAAAAGGAGGAAAGGAGAAATGGGCTATAAAGCCAGAAATGGTTAAATTG 1107  
Qy GGGGCAATTC-----TTATCCAGCTATGTTGTGGCACTGCC-----TTCT 733  
Db GGGGCAATTCCTTTAAATTTCCCAAGCTAAATGGGTTGTTGGGCCAACTTGCCCTTCTT 1167  
Qy TCATCAATTTTCATAGCCATTTATTAACCATGCTCAAGAGCCATTCCTTTTGGAAC-AATG 792  
Db TCATCAATTTTCATAGCCATTTATTAACCATGCTCAAGAGCCATTCCTTTTGGAACAATG 1227  
Qy GTGGCCGTTTCTGTCATCTG-TTTTGTGTTATTTCTCTCTAAATCTTGTGTTGTAACAAT 851  
Db GTGGCCGTTTGTGCACTGTTTTTTTGTGTTATTTCTCTCTAAATCTTGTGTTGTAACAAT 1287  
Qy ACTTGGCCGAATCTGTCAAGTCAGCCCAACTTTCTTGTGTCATGCAATGCTGTGCCTC- 910  
Db ACTTGGCCGAATCTGTCAAGTCAGCCCAACTTTCTTGTGTCATGCAATGCTGTGCCTCT 1347  
Qy GTCTATACCGGAGA----AAAATGGTTTATGAGCCCTGGGTTATTTGTTGCTCGGT 966  
Db GTCTATACCGGAGAACACACAGATGGTACATGAGCCCTGGGTTATTTGTTGCTCGGT 1407  
Qy GGAATTTTACCTTTTGGTTCAATCTTTATGAAATGATTTTCACTTCACGTCCTTTCTGG 1026  
Db GGAATTTTACCTTTTGGTTCAATCTTTATGAAATGATTTTCACTTCACGTCCTTTCTGG 1467  
Qy GCATATAAGATCTATTATGCTATGGCTTCATGATGCTGTGCTGGTTATCCTGTGCATT 1086  
Db GCATATAAGATCTATTATGCTATGGCTTCATGATGCTGTGCTGGTTATCCTGTGCATT 1527  
Qy GTGACTGTGTGACTATTTGTGACACATATTTTCTAATAATGAGAGATTAACCGG 1146  
Db GTGACTGTGTGACTATTTGTGACACATATTTTCTAATAATGAGAGATTAACCGG 1587  
Qy TGGCAATGGACAAGTTTCTCTGCTGCTGCACTCAATCTATGTTTACATGTTATTC 1206  
Db TGGCAATGGACAAGTTTCTCTGCTGCTGCACTCAATCTATGTTTACATGTTATTC 1647  
Qy TTTTACTACTATTTTT-----CAAAACAAGATGATGCGCTATTTCAAAACATCAT 1259  
Db TTTTACTACTATGTTTTCGAAAAACAAGATGATGTTGCTTATTTGTCAAACATCTATTT 1707  
Qy TTACTTTGGATATATGCG--GGTATTTAGCACACCCCTTGGGATAATGTGTGGAGCG 1314  
Db TACATTTGGATATATGCGGTGATATTTAGCACAGCTCTTGGGGATATATGTGTGGAG 1764

US-10-264-237-1414  
; Sequence 1414, Application US/10264237  
; Publication No. US20040009491A1  
; GENERAL INFORMATION:  
; APPLICANT: Biree et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PA131P1  
; CURRENT APPLICATION NUMBER: US/10/264,237  
; CURRENT FILING DATE: 2002-10-04  
; PRIOR APPLICATION NUMBER: PCT/US01/16450  
; PRIOR FILING DATE: 2001-05-18  
; PRIOR APPLICATION NUMBER: US 60/205,515  
; PRIOR FILING DATE: 2000-05-19  
; NUMBER OF SEQ ID NOS: 2876  
; SOFTWARE: PatentIn Ver. 3.1  
; SEQ ID NO 1414  
; LENGTH: 1070  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (34)..(34)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (40)..(40)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (525)..(525)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (529)..(529)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (557)..(557)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (837)..(837)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (912)..(912)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (956)..(956)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (965)..(966)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1025)..(1025)  
; OTHER INFORMATION: n equals a,t,g, or c  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (1047)..(1047)  
; OTHER INFORMATION: n equals a,t,g, or c  
; US-10-264-237-1414

Query Match 44.8%; Score 590.4; DB 6; Length 1070;  
Best Local Similarity 91.5%; Pred. No. 1.9e-135;  
Matches 677; Conservative 0; Mismatches 10; Indels 53; Gaps 3;  
Qy 631 TTTGGAGGAGTCTGTATGCTAGACAAGGAGGAGATGGATAAAGCAGATGTTTATT 690  
Db 20 TTTGGAGGCTCTCTNTATGANACAAAGGAGGAGATGGATAAAGCAGATGTTTATT 79



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Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	48.8	3.7	427	6	US-10-821-234-288	Sequence 288, App
2	44.6	3.4	579	6	US-10-750-185-1291	Sequence 1291, Ap
3	41.2	3.1	1431	6	US-10-750-185-33765	Sequence 33765, A
4	40.8	3.1	976	6	US-10-750-185-36571	Sequence 36571, A
5	38.6	2.9	1717	6	US-10-750-185-33666	Sequence 33666, A
6	38.4	2.9	1512	7	US-11-139-195-3	Sequence 3, Appli
7	38.4	2.9	1971	7	US-11-139-195-1	Sequence 1, Appli
8	38.4	2.9	4668	6	US-10-750-185-47661	Sequence 47661, A
9	37.2	2.8	1082144	7	US-11-117-187-211	Sequence 211, App
10	36.8	2.8	588	6	US-10-689-742-41	Sequence 41, Appl
11	36.8	2.8	134499	7	US-11-117-187-192	Sequence 192, App
12	36.8	2.8	156544	7	US-11-121-086-81	Sequence 81, Appl
13	36.8	2.8	166111	7	US-11-112-908-47	Sequence 47, Appl
14	36.4	2.8	1838	6	US-10-750-185-47394	Sequence 47394, A
15	36.2	2.7	7744	6	US-10-750-185-55059	Sequence 55059, A
16	35.8	2.7	170995	7	US-11-121-086-35	Sequence 35, Appl
17	35.6	2.7	2038	6	US-10-750-185-51020	Sequence 51020, A
18	35.6	2.7	2954	6	US-10-793-626-3359	Sequence 3359, Ap
19	35.6	2.7	3198	6	US-10-793-626-3987	Sequence 3987, Ap
20	35.4	2.7	1033	6	US-10-750-185-26458	Sequence 26458, A
21	35.4	2.7	1795	6	US-10-750-185-54055	Sequence 54055, A
22	35	2.7	1695	7	US-11-074-176-97	Sequence 97, Appl
23	35	2.7	2140	6	US-10-510-986-75	Sequence 75, Appl

```

; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 1291
; LENGTH: 579
; TYPE: DNA
; ORGANISM: Bovine MMBT17749
US-10-750-185-1291

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Query Match      3.4%; Score 44.6; DB 6; Length 579;
Best Local Similarity 54.6%; Pred. No. 0.079;
Matches 89; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

Qy 886 CTTGTCGTGCAATGCTGCGTCCTATACCGAGAAAAAATGGTTTCATGGAGCCT 945
Db 358 CCAGTTGGAACCAATCAGATTCCACGTCAGATTCCTGAACAGTCTTTCTACACAAAGCCA 417

Qy 946 GCGGTTATTTGCTGCGGTGGAATTTTACCTTTTGGTTTCAATCTTTATTGAAATGTAT 1005
Db 418 TTACTCGTATTATCATGGAGGATTTTGGCTTTGGTGCACTTTTATACAGCTTTTC 477

Qy 1006 TTCACTTCAGCTCTTTCTGGGCATATAAGATCATATTATGTCT 1048
Db 478 TTCCTCCTGAATAGTATTTTGGTAAGCTGAGCACTAAGTCCTCT 520

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RESULT 3
US-10-750-185-33765/c
; Sequence 33765, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 33765
; LENGTH: 1431
; TYPE: DNA
; ORGANISM: Bovine 19866881348699
US-10-750-185-33765

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```

Query Match      3.1%; Score 41.2; DB 6; Length 1431;
Best Local Similarity 51.8%; Pred. No. 0.78;
Matches 143; Conservative 0; Mismatches 128; Indels 5; Gaps 2;

Qy 1 ATGTACATAGATGATTACCAATATGGGTATTTGTTGGTAGG--CTGATGAAATGGAG 58
Db 972 ATTGAATATTTTGAATGTAGAAAAATAGGTATGATTGTTGTTGAATTTTAAACATTCAC 913

Qy 59 AAGATTACTATCTTTGGACCTTATAAAAAAATAGGTTTAAATGGAATCGAATTG 118

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Db 912 CATTTCATCTATCTTTAGGAGTCCAAATTAATTTGAATTAATTTTAAAGTTAAATTTGTAAT 853
Qy 119 TTGATGTTAATCTAATCTAGTGAAGGAAGGTGAACCTGGTTCCAAATCTAAAAATCCAGA 178
Db 852 TATTTTTTAAACAACTGGTTTATTCAGTTGCTAGGAGAAAAACAATTCAGATAGGTT 793
Qy 179 TGCATATTTCAGTAAATGGAAGAAAGTCAGATGGAATTTGAAGATCGATTTGACAAAT 238
Db 792 TCCACCATTTCAATACATACATCTCTCATGAAAAATATATTTATATATATATATTA 736
Qy 239 ATCTTGATCGTCTCTTTTTCACATCGGATTCATT 274
Db 735 AAGTTGATCTGTAGTTATATCAATATATACTTAAT 700

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RESULT 4
US-10-750-185-36571/c
; Sequence 36571, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 36571
; LENGTH: 976
; TYPE: DNA
; ORGANISM: Bovine 19866880978614
US-10-750-185-36571

```

```

Query Match      3.1%; Score 40.8; DB 6; Length 976;
Best Local Similarity 51.1%; Pred. No. 0.83;
Matches 96; Conservative 0; Mismatches 92; Indels 0; Gaps 0;

Qy 1102 ACTATTGTGTGCACATATTTTCTACTAAATGCAGAAAGATTACCGGTGGCAATGGACAAGT 1161
Db 308 ACTTGAGTCTTTCTCTATGTTCTACGCCAGATGGATATATGAGATTGGATGGGTCAATT 249

Qy 1162 TTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTCTTTTACTACTATTTT 1221
Db 248 CTTTCTCTTTTCTGTAAGTGTGCAATCTCTTAAATGCTCTTCTCTCTGTATATA 189

Qy 1222 TTCAAAACAAAGATGTATGCTTTATTTCAAACATCATTTTACTTTTGATATATGGCGGTA 1281
Db 188 TTCAATGCTGCTAGTAGTAATCTCTGTGTGAAATATGATTAGACAGGTTGTGTACAGTGTTA 129

Qy 1282 TTTAGCAC 1289
Db 128 AGCCGCTC 121

```

```

RESULT 5
US-10-750-185-33666/c
; Sequence 33666, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen

```

	Query Match	2.9%;	Score 38.4;	DB 7;	Length 1512;
	Best Local Similarity	50.0%;	Pred. No. 3.8;		
	Matches	96;	Conservative 0;	Mismatches 96;	Indels 0; Gaps 0;
QY	11	ATGATTTC	CAATATGGGGTATTGTTGGTGAGCGTGATGAAATGGAGAAATTACTATATC	70	
Db	320	ATGCCATTTCAATTTTGAAAAATCTCTTGAACTTGATGCAAAAAGGAAAAAATCTTTCTC	379		
QY	71	TTTGGACCTATATAAAACCTTGAAATAGGTTTTTAATGGAAATCGAATTTGTTGATGTTATC	130		
Db	380	AGAGAGATGATAACCAACTTAAAGAAAGTGGAGAAAAATGAAATCATTTGCCAAGAAAT	439		
QY	131	TAACTAGTAGGAAGAAAGGTGAAACTGGTTTCAAATATCTTAAATCCAGATGTCATATTCAAG	190		

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RESULT 8
US-10-750-185-47661/c
/ Sequence 47661, Application US/10750185
/ Publication No. US20050260603A1
/ GENERAL INFORMATION:
/ APPLICANT: MMI GENOMICS, INC.
/ APPLICANT: DENISE, Sue K.
/ APPLICANT: KERR, Richard
/ APPLICANT: ROSENFELD, David
/ APPLICANT: HOLM, Tom
/ APPLICANT: BATES, Stephen
/ APPLICANT: FANTIN, Dennis
/ TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
/ FILE REFERENCE: MM1100-2
/ CURRENT APPLICATION NUMBER: US/10/750,185
/ CURRENT FILING DATE: 2003-12-31
/ PRIOR APPLICATION NUMBER: US 60/437,482
/ PRIOR FILING DATE: 2002-12-31

```





Db 9287 ATACTAATTAAGATCTAAATTTTATAACAATTTTCAACAAGCAATCTCCATTTCTTCATAT 9346

## RESULT 12

US-11-112-086-81  
; Sequence 81, Application US/11121086  
; Publication No. US20050266459A1  
; GENERAL INFORMATION:  
; APPLICANT: POULSEN, TIM S.  
; APPLICANT: NIELSEN, KIRSTEN V.  
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES  
; FILE REFERENCE: 09138.6000-00000  
; CURRENT APPLICATION NUMBER: US/11/121,086  
; CURRENT FILING DATE: 2005-05-04  
; PRIOR APPLICATION NUMBER: 60/567,570  
; PRIOR FILING DATE: 2004-05-04  
; NUMBER OF SEQ ID NOS: 107  
; SOFTWARE: Patent in version 3.3  
; SEQ ID NO 81  
; LENGTH: 156544  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-121-086-81

Query Match 2.8%; Score 36.8; DB 7; Length 156544;  
Best Local Similarity 52.6%; Pred. No. 65;  
Matches 80; Conservative 0; Mismatches 72; Indels 0; Gaps 0;  
Qy 335 TTTTAATGAGAACATTAGAAGAATTTATGTCGGTACAGTAAAGAGAGAAATGGATG 394  
Db 91807 TTGAGATGTAATTCCTATGGGCGCATGTTGTGGGAAGTCAGGAGCCCAACGAGG 91866  
Qy 395 ATATGATAGACCTAGAGATGAATATGATGGAACAGGTGCATCGAGATGTTATTA 454  
Db 91867 GACCGGCTGAAGCCATGGCAGAGAATGTGGAATTCATGAGATTTTCATGACATTTATTAG 91926  
Qy 455 GACCATCAAGTCACCCACTGATATTTCTCT 486  
Db 91927 TTCCCAATTAATACCTTTTATAATTTCTTAT 91958

## RESULT 13

US-11-112-908-47  
; Sequence 47, Application US/11112908  
; Publication No. US20050260659A1  
; GENERAL INFORMATION:  
; APPLICANT: Harris, Cole  
; APPLICANT: Davis, Lisa M.  
; TITLE OF INVENTION: Breast Cancer Biomarkers  
; FILE REFERENCE: 04-164-US  
; CURRENT APPLICATION NUMBER: US/11/112,908  
; CURRENT FILING DATE: 2005-04-22  
; PRIOR APPLICATION NUMBER: US 60/564,758  
; PRIOR FILING DATE: 2004-04-23  
; PRIOR APPLICATION NUMBER: US 60/575,978  
; PRIOR FILING DATE: 2004-06-01  
; PRIOR APPLICATION NUMBER: US 60/631,702  
; PRIOR FILING DATE: 2004-11-30  
; PRIOR APPLICATION NUMBER: US 60/633,826  
; PRIOR FILING DATE: 2004-12-07  
; NUMBER OF SEQ ID NOS: 511  
; SOFTWARE: Patent in version 3.3  
; SEQ ID NO 47  
; LENGTH: 166111  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-11-112-908-47

Query Match 2.8%; Score 36.8; DB 7; Length 166111;  
Best Local Similarity 55.5%; Pred. No. 66;  
Matches 71; Conservative 0; Mismatches 57; Indels 0; Gaps 0;  
Qy 1146 GTGGCAATGGACAAGTTTTCTCTCTGCTGCATCAACTGCAATCTATGTTTACATGTTTC 1205

Db 160875 GTTTCAGTTGCAGATTATGGACTCTTGCTTTTCATTTTCATTATATTCTTACAGTTTTT 160934  
Qy 1206 CTTTTACTACTATTTTTTCAAAAACAAGATGATGGCTTATTTCAAAACATCATTTTACTT 1265  
Db 160935 GTTTACTTTCATCTTTTAAAAACAACAACATTTACAGGTTTCATTTAAAGCCTCTTTTACTT 160994  
Qy 1266 TGGATATA 1273  
Db 160995 TTCTTCTA 161002

## RESULT 14

US-10-750-185-47394  
; Sequence 47394, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 47394  
; LENGTH: 1838  
; TYPE: DNA  
; ORGANISM: Bovine 19866881503992  
US-10-750-185-47394

Query Match 2.8%; Score 36.4; DB 6; Length 1838;  
Best Local Similarity 66.7%; Pred. No. 13;  
Matches 52; Conservative 0; Mismatches 26; Indels 0; Gaps 0;  
Qy 67 TATCTTTGGACCTATAAAAACTTGAATAGTGTTTAATGGAATCGAATTTGTTGATGTT 126  
Db 9 TATGTGTATATAAATTAATAAATTTAATACATTTAATGGAAGTAGTATTTTGATCCA 68  
Qy 127 AATCTAACTAGTGAAGGA 144  
Db 69 ATTATTAATAATCAAGGA 86

## RESULT 15

US-10-750-185-55059  
; Sequence 55059, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 55059  
; LENGTH: 7744

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; TYPE: DNA
; ORGANISM: Bovine 19866880459099
US-10-750-185-55059

Query Match      2.7%; Score 36.2; DB 6; Length 7744;
Best Local Similarity 46.9%; Pred. No. 26;
Matches 113; Conservative 0; Mismatches 128; Indels 0; Gaps 0;

Qy 75 GACCTATAAAAACCTTGAAATAGGTTTTTAATGGAAATCGAAATGTTGATGTTAATCTAAC 134
Db 5671 GTCATATAAAAATCTACCACATTTCTCCATACCACGAGGATTAGGGAATGAAATTCATA 5730

Qy 135 TAGTGAAGGAAAGCTGAAACTGGTTCCAAATCTAAATCCAGATGTCATATTCAGTAAA 194
Db 5731 AAACATAATAGAGATAAACATCCATGATCATTTTAATGCTCAAGAAATACAGACTAATGACT 5790

Qy 195 ATGGAATAAGTCAGATGCGAAATTTGAAGATCGAATTTGACAAATATCTTGATCGTCCTT 254
Db 5791 CCTGAAAACTACTGCTGAGAGAATTTAAGAAGACCTAAATAAATAGAAATATATGTTATA 5850

Qy 255 TTTTCAACATCGGATTCATTTGGTTTTTCAATTTTCAACTCCTTCATGATGGTGATCTTCTT 314
Db 5851 TTCGTAGATTGGAAGACAATATTTTAGAATGTCAAAATCCTTGTATTCTCAATAGTATT 5910

Qy 315 G 315
Db 5911 G 5911
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Search completed: December 13, 2005, 20:52:06  
Job time : 151.15 secs

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 14:32:10 ; Search time 29.154 Seconds  
(without alignments)  
6534.704 Million cell updates/sec

Title: US-09-319-724B-2  
Perfect score: 1317  
Sequence: 1 atgtacatagatgattacc.....ggataatgtggagcgatt 1317

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 58619 seqs, 72328296 residues

Total number of hits satisfying chosen parameters: 117238

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending Patents NA New:  
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2: /cgn2\_6/ptodata/2/pna/US06\_NEW\_COMB.seq.\*  
3: /cgn2\_6/ptodata/2/pna/US07\_NEW\_COMB.seq.\*  
4: /cgn2\_6/ptodata/2/pna/US08\_NEW\_COMB.seq.\*  
5: /cgn2\_6/ptodata/2/pna/US09\_NEW\_COMB.seq.\*  
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7: /cgn2\_6/ptodata/2/pna/US11\_NEW\_COMB.seq.\*  
8: /cgn2\_6/ptodata/2/pna/US60\_NEW\_COMB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	45.4	3.4	3422	6 US-10-250-987A-1	Sequence 1, Appli
2	39.8	3.0	4916	6 US-10-556-747-7	Sequence 7, Appli
3	38.8	2.9	753	6 US-10-868-184C-478	Sequence 478, Appl
4	38.6	2.9	726	7 US-11-284-088-18	Sequence 18, Appli
5	38.6	2.9	5849	7 US-11-270-287-1	Sequence 1, Appli
c 6	37.6	2.9	99300	1 PCT-US05-10912-2	Sequence 2, Appli
7	36.8	2.8	2674	6 US-10-868-184C-9096	Sequence 9096, Ap
c 8	36	2.7	99050	1 PCT-US05-10912-13	Sequence 13, Appli
9	35	2.7	46487	6 US-10-868-184C-10520	Sequence 10520, A
c 10	34.4	2.6	2394	8 US-60-732-162-1687	Sequence 1687, Ap
11	34.4	2.6	10675	6 US-10-868-184C-10186	Sequence 10186, A
12	34.4	2.6	10677	6 US-10-868-184C-10185	Sequence 10185, A
13	34.4	2.6	15244	6 US-10-868-184C-10187	Sequence 10187, A
14	34	2.6	2388	6 US-10-868-184C-1624	Sequence 1624, Ap
15	34	2.6	21371	6 US-10-868-184C-10177	Sequence 10177, A
16	33.8	2.6	1725	1 PCT-US05-39299-46	Sequence 46, Appli
17	33.8	2.6	1725	1 PCT-US05-39299-47	Sequence 47, Appli
18	33.8	2.6	4113	8 US-60-732-162-933	Sequence 933, Appl
19	33.8	2.6	15223	6 US-10-934-003A-1	Sequence 1, Appli
c 20	33.4	2.5	272	5 US-09-980-559A-60	Sequence 60, Appli
21	33.4	2.5	30620	6 US-10-868-184C-12040	Sequence 12040, A
c 22	33.2	2.5	3422	6 US-10-250-987A-1	Sequence 1, Appli
c 23	33	2.5	905	7 US-11-197-712-88	Sequence 88, Appli
24	33	2.5	45698	6 US-10-868-184C-10364	Sequence 10364, A
25	33	2.5	2944528	7 US-11-045-004-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-10-250-987A-1  
; Sequence 1, Application US/10250987A  
; GENERAL INFORMATION:  
; APPLICANT: Bisogni, Rita  
; APPLICANT: Lambert, Annalisa  
; APPLICANT: Petrella, Antonello  
; APPLICANT: Romana, Maria Fiammetta  
; APPLICANT: Turco, Maria Caterina  
; APPLICANT: Venuta, Salvatore  
; TITLE OF INVENTION: Nucleotide Sequences and Protein(s) Encoded by Such Nucleotides  
; FILE REFERENCE: 50294/006001  
; CURRENT APPLICATION NUMBER: US/10/250,987A  
; PRIORITY FILING DATE: 2003-11-25  
; PRIOR APPLICATION NUMBER: PCT/EP02/00171  
; PRIOR FILING DATE: 2002-01-10  
; PRIOR APPLICATION NUMBER: RM01A000005  
; PRIOR FILING DATE: 2001-01-10  
; NUMBER OF SEQ ID NOS: 21  
; SOFTWARE: Patent in version 3.3  
; SEQ ID NO 1  
; LENGTH: 3422  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: mRNA  
; LOCATION: (1)..(3422)  
; OTHER INFORMATION: full-length AIR cDNA comprising the ORFs corresponding to:  
; OTHER INFORMATION: seqIDN2, seqIDN4, seqIDN6, seqIDN8.

Query Match 3.4%; Score 45.4; DB 6; Length 3422;  
Best Local Similarity 49.0%; Pred. NO. 0.0051;  
Matches 121; Conservative 0; Mismatches 126; Indels 0; Gaps 0;

Qy	57	AGAAGATTACTATCTTTGGACCTATATAAACTTGAATAAGTGTTCCTTAAATCGAAT	116
Db	3044	AAATATATAATTTGTTATTTCCAAATAGAAACACACGAAATATTTTTTAATTCGAAGACT	3103
Qy	117	TGTTGATGTTTAACTTAACCTAGTGAAGGAAAGTGAACCTGGTTCCAAATCTAAATCCCA	176
Db	3104	TTTGTGACCAATTTATATACTACCTTAAATAAAAAATTCACACTATTATATTATAA	3163
Qy	177	GATGTCATTTTCAGTAAATCGAAAACTCAGATGTGAAATTTGAAGATCGATTTGACAA	236
Db	3164	TAATAAAAGTTCTTAAAAAACTTCAACATTTAAATTTTTTTTAAATGTTTATAGATTTAAAT	3223



Matches 151; Conservative 0; Mismatches 169; Indels 1; Gaps 1;  
 QY 215 AATTGAGATCGAATTGAAATATCTTGATCGGCTTTTTCACACATCGGATTCATT 274  
 Db |||||  
 QY 101 AATTTCAGATCGTGCCCAATCCCTATATGTAAGATTTTCCAAACATGGTTCTGA 160  
 Db |||||  
 QY 275 GGTTCCTCAATTTCAACTCCTTCATGATGGTGATCTCTTGTTGGGCTTTAGTTTCAATGA 334  
 Db |||||  
 QY 161 TTTTAAAGTGAAGAAATGCTACTTCTCATCATGCTCTTTTGGTCTTCTTACITTTAAATAT 220  
 Db |||||  
 QY 335 TTTTATGAGAAC-ATTAGAAAAGATTATGTCGTCAGTAAGAGAGAAATGGAT 393  
 Db |||||  
 QY 221 TAGAATGAAGAGGAGCCCAAGGAAGAAATCTGGAAGATATGCTGTGGATCCTGAC 280  
 Db |||||  
 QY 394 GATATGATAGACCTAGGAGATGAATATGATGGAACAGCTGATGGAGATGTTT 453  
 Db |||||  
 QY 281 AATGAGCTTATGAATGCTTCTGAGTAGAGTCCAAGCTGAATCTTCTTAAACAGAC 340  
 Db |||||  
 QY 454 AGACCATCAAGTCACCCACTGATATTTCTCTCTGATTGGTTCTGGATGTCAGATATT 513  
 Db |||||  
 QY 341 AGTACCAAAACCTGCTATGTCACATTTCTCTTCAITAGTCTTAGTGAGATCAIT 400  
 Db |||||  
 QY 514 GCTGTGCTCTCATGCTTATT 534  
 Db |||||  
 QY 401 GCTCTACATGCTCATTAGT 421  
 Db |||||

RESULT 5  
 US-11-270-287-1  
 ; Sequence 1, Application US/11270287  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Kara, Anna K.  
 ; APPLICANT: Ting, Robert C.  
 ; APPLICANT: Tham, Jill M.  
 ; APPLICANT: Nelson, James S.  
 ; APPLICANT: Tan, Theresa M.  
 ; TITLE OF INVENTION: Diagnosis of Parasites  
 ; FILE REFERENCE: 64-99  
 ; CURRENT APPLICATION NUMBER: US/11/270,287  
 ; CURRENT FILING DATE: 2005-11-09  
 ; PRIOR APPLICATION NUMBER: US/09/369,992  
 ; PRIOR FILING DATE: 1998-08-06  
 ; PRIOR APPLICATION NUMBER: PCT/IB98/00212  
 ; PRIOR FILING DATE: 1998-02-05  
 ; PRIOR APPLICATION NUMBER: AU P09481/97  
 ; PRIOR FILING DATE: 1997-09-26  
 ; PRIOR APPLICATION NUMBER: AU P09329/97  
 ; PRIOR FILING DATE: 1997-04-21  
 ; PRIOR APPLICATION NUMBER: AU P04953/97  
 ; PRIOR FILING DATE: 1997-02-06  
 ; NUMBER OF SEQ ID NOS: 53  
 ; SOFTWARE: Patent In Ver. 2.0  
 ; SEQ ID NO 1  
 ; LENGTH: 5849  
 ; TYPE: DNA  
 ; ORGANISM: Plasmodium berghei  
 US-11-270-287-1

Query Match 2.9%; Score 38.6; DB 7; Length 5849;  
 Best Local Similarity 44.4%; Pred. No. 0.39;  
 Matches 155; Conservative 0; Mismatches 194; Indels 0; Gaps 0;  
 QY 69 TCTTTGGACCTATAAAACTTGAATAGGTTTAAATCGAATCGAATTTGATGTAA 128  
 Db |||||  
 QY 405 TTTTAAATATACTAACAAATTTACTATCTTTTAAAGTAGAAGAAATAAATAATATTAT 464  
 Db |||||  
 QY 129 TCTAACTAGTAGAAGGAAGGTGAAACTGGTTCCAAATACTAAATCCAGATGTCATATTC 188  
 Db |||||  
 QY 465 CATACTAATATTTGGACATCTCGAACACAGACCACTCTGGTAATTTAAACATATTTAAA 524  
 Db |||||  
 QY 189 AGTAAATGGAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAATATCTTGATCC 248  
 Db |||||  
 QY 525 ATTTTAAAGAATATATTTTAAATTTGTAATAAAAAAATAAATAAATATTATTAGATA 584  
 Db |||||

QY 249 GTCTTTTTCACATCGGATTCATTGGTTTCAATTTTCAACTCCTTCATGATGGTAT 308  
 Db |||||  
 QY 585 AATTTTATCAATTTTATTTTATTAATCAATTCCTTATTAATATAAATTTATTTAT 644  
 Db |||||  
 QY 309 CTCTTGTGGGCTTTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGATTTATGCTG 368  
 Db |||||  
 QY 645 TATATTGATTTTATAAATTTAAATTTATAAATTTTAAAAATTTTAAAAATTTTAAATTTAT 704  
 Db |||||  
 QY 359 GTACAGTAAAGAGGAAGAAATGGATGATATGGATAGACACCTAGGAT 417  
 Db |||||  
 QY 705 TTATCATATAATTTTATATTTATATAAATTTTCAAGTTTAAACGATGAGAT 753  
 Db |||||

RESULT 6  
 PCT-US05-10912-2/c  
 ; Sequence 2, Application PC/TUS0510912  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SEQUENOM, INC.  
 ; TITLE OF INVENTION: METHODS FOR IDENTIFYING RISK OF OSTEOARTHRITIS AND TREATMENTS  
 ; FILE REFERENCE: SEQ-4087-PC  
 ; CURRENT APPLICATION NUMBER: PCT/US05/10912  
 ; CURRENT FILING DATE: 2005-03-31  
 ; PRIOR APPLICATION NUMBER: 60/559,011  
 ; PRIOR FILING DATE: 2004-04-01  
 ; PRIOR APPLICATION NUMBER: 60/559,203  
 ; PRIOR FILING DATE: 2004-04-01  
 ; PRIOR APPLICATION NUMBER: 60/559,202  
 ; PRIOR FILING DATE: 2004-04-01  
 ; NUMBER OF SEQ ID NOS: 3560  
 ; SOFTWARE: Patent In version 3.3  
 ; SEQ ID NO 2  
 ; LENGTH: 99900  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: modified base  
 ; LOCATION: (87186)..(87186)  
 ; OTHER INFORMATION: a, c, g, or t  
 ; FEATURE:  
 ; NAME/KEY: modified base  
 ; LOCATION: (87189)..(87189)  
 ; OTHER INFORMATION: a, c, g, or t  
 ; FEATURE:  
 ; NAME/KEY: modified base  
 ; LOCATION: (94779)..(94779)  
 ; OTHER INFORMATION: a, c, g, or t  
 PCT-US05-10912-2

Query Match 2.9%; Score 37.6; DB 1; Length 99900;  
 Best Local Similarity 50.6%; Pred. No. 1.8;  
 Matches 91; Conservative 0; Mismatches 89; Indels 0; Gaps 0;  
 QY 45 TGATGAAATGGAGAAGATTACTATCTTTGGACCTATATAAAAACTTGAATAGGTTTAA 104  
 Db |||||  
 QY 9840 TAATTAATGTTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 9781  
 Db |||||  
 QY 105 TGGAAATCGAATTTGATGTTAATCTAACTAGTGAAGGAAGGTGAACTGGTTCCAAA 164  
 Db |||||  
 QY 9780 TACATATTTTATAAATTAAGTATTATAAATTTACATATTTTATAAATTAAGTATTATAAT 9721  
 Db |||||  
 QY 165 TACTAAATCCAGATGTCATATTCAGTAAATGGAAGAACGATGGAATTTGAAGA 224  
 Db |||||  
 QY 9720 TACATATTTTATAAATTTCAATATTTTATAAATAGTTTAAAAAGACGAGAAAAATTTAAAA 9661  
 Db |||||

RESULT 7  
 US-10-868-184C-9096  
 ; Sequence 9096, Application US/10868184C  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen, et. al  
 ; TITLE OF INVENTION: Human Secreted Proteins



```

; CURRENT FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/278,650
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US01/11988
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US00/06043
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06012
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06058
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06044
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06059
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06042
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06014
; PRIOR FILING DATE: 2000-03-09
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13046
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10520
; LENGTH: 46487
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-868-184C-10520

Query Match      2.7%; Score 35; DB 6; Length 46487;
Best Local Similarity 66.7%; Pred. No. 7;
Matches 50; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 769 AGAGCATTCCTTTTGGAAACAATGGGCGGTTGTGTCATCTGTTTTGTTATCTT 828
Db 7565 AGGAATTCCTTTGTGGAAAAATGGTGAGGATGTATGCTTTTTTTTTTAATCTT 7624

QY 829 CCTCTAAATCTTGTT 843
Db 7625 ATTAATATCTTTTT 7639

RESULT 10
US-60-732-162-1687/c
; Sequence 1687, Application US/60732162
; GENERAL INFORMATION:
; APPLICANT: Belouchi, Abdelmajid
; APPLICANT: Raelson, John V
; APPLICANT: Bradley, Walter E
; APPLICANT: Paquin, Bruno
; APPLICANT: Fournier, Helene
; APPLICANT: Nguyen-Huu, Quynh
; APPLICANT: Croteau, Pascal
; APPLICANT: Allard, Rene
; APPLICANT: Debrus, Sophie
; APPLICANT: Erdewegh, Paul V
; APPLICANT: Little, Randall D
; APPLICANT: Keith, Tim
; APPLICANT: Segal, Jonathan
; TITLE OF INVENTION: Genemap of the Human Genes Associated With Asthma Disease
; FILE REFERENCE: 059908-5010-PR
; CURRENT APPLICATION NUMBER: US/60/732,162
; CURRENT FILING DATE: 2005-11-02
; NUMBER OF SEQ ID NOS: 4417
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1687
; LENGTH: 2394
; TYPE: DNA
; ORGANISM: Homosapiens
US-60-732-162-1687

Query Match      2.6%; Score 34.4; DB 8; Length 2394;

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Best Local Similarity 52.7%; Pred. No. 3.8;
Matches 97; Conservative 0; Mismatches 86; Indels 1; Gaps 1;

QY 1107 TGTGTGCACATATTTTCTACTAAATGCAGAGATTACCGGTGGCAATGGAAGTTTCT 1166
Db 2214 TTTTGGAAACAATGTTATTCACATTTATGAGATTTGTGGGTTTCTCTACAAATTTCT 2155

QY 1167 CTCGCTGCATCAACTGCAATCTATGTTTACATGTATTCCTTTACTACTATTTTCAA 1226
Db 2154 GAAAGTTTAAGCACTG-ATGCAAGTCTTCCATCTAGTATAATTTGAACATTTTTTTCAG 2096

QY 1227 AACAAAGATGTATGCTTATTTTCAAAACATCAFTTTTACTTTGATATATGCGGTAFTT 1286
Db 2095 AAGAAATACTCTTGTGTGCTCTGGAGACTTATATTTTCATGAAGGTCCTTCAATAGTAT 2036

QY 1287 CACA 1290
Db 2035 TACA 2032

RESULT 11
US-10-868-184C-10186
; Sequence 10186, Application US/10868184C
; GENERAL INFORMATION:
; APPLICANT: Rosen, et. al
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS805
; CURRENT APPLICATION NUMBER: US/10/868,184C
; CURRENT FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/278,650
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US01/11988
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US00/06043
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06012
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06058
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06044
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06059
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06042
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06014
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13046
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10186
; LENGTH: 10675
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-868-184C-10186

Query Match      2.6%; Score 34.4; DB 6; Length 10675;
Best Local Similarity 46.6%; Pred. No. 6.3;
Matches 110; Conservative 0; Mismatches 126; Indels 0; Gaps 0;

QY 161 CAATATAAATCCAGATGTCATATTCAGTAAATGGAAGTGAAGTCAAGTGAATTTG 220
Db 423 CACATGCAAGAAGTCTAGAAATCTACCTGGAAATGATTAAATACCTCAAAATGTTATT 482

QY 221 AAGATCGATTTGACAAATATCTTGATCGTCTCTTTTCAACATCGGATTCATTCGTTT 280
Db 483 GTGTTGGCAGTGGGTAATAGTATATCTTATCCAGCTTGCTCAGGCTCTTTAGCTTA 542

QY 281 CAATTTTCAACTCCCTTCAATGATGATCTTTCTTTGGTGGCTTAGTCTTTCAATGATTTAA 340
Db 543 ACATTTCTTTTACCTTTTGGAAACCAGTCCCTAAATTCATTTATATTTTAAATGTTTAT 602

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QY 341 TGAGACAACTTAAGAAAAAGATTATGCTCGGTACAGTAAAGAGAGAAATGGATGAT 396
Db 603 TTGAAGCAATAACAATTGTTAGGCAGCCAAAGGTAGAAAGGAAAGAAATGGAACAT 658

RESULT 12
US-10-868-184C-10185
; Sequence 10185, Application US/10868184C
; GENERAL INFORMATION:
; APPLICANT: Rosen, et. al
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS805
; CURRENT APPLICATION NUMBER: US/10/868,184C
; CURRENT FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/278,650
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US01/11988
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US00/06043
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06012
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06058
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06044
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06059
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06042
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06014
; PRIOR FILING DATE: 2000-03-09
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13046
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10185
; LENGTH: 10677
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-868-184C-10185

Query Match 2.6%; Score 34.4; DB 6; Length 10677;
Best Local Similarity 46.6%; Pred. No. 6.3;
Matches 110; Conservative 0; Mismatches 126; Indels 0; Gaps 0;

QY 161 CAATACTAAAATCCAGATGTCATATTACAGTAAATGAAAAAGTCAGATGTGAAATTTG 220
Db 423 CACATGCAAGAACTTAGATCTTACCTGGAAATGATTATATCTCTATTCCAGCTTGCTCAGGCTCTTTAGCTTA 482
QY 221 AAGATCGATTTGACAAATATCTTGATCCGTCCTTTTTTCAACATCGGATTCATTGGTTTT 280
Db 483 GTGTTGGCAGTGGGTAAATAGTATATCTTCTATTCCAGCTTGCTCAGGCTCTTTAGCTTA 542
QY 281 CAATTTTCAACTCCTTCATGATGTGATCTTCTTGTTGGGCTTAGTTTCAATGATTTTAA 340
Db 543 ACATTTCTTTTACCTTTTGAACCCAGTCCCTAAATTCATTATATATTTAAATGTTTATAT 602
QY 341 TGAGACAACTTAAGAAAAAGATTATGCTCGGTACAGTAAAGAGAGAAATGGATGAT 396
Db 603 TTGAAGCAATAACAATTGTTAGGCAGCCAAAGGTAGAAAGGAAAGAAATGGAACAT 658

RESULT 13
US-10-868-184C-10187
; Sequence 10187, Application US/10868184C
; GENERAL INFORMATION:
; APPLICANT: Rosen, et. al
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS805
; CURRENT APPLICATION NUMBER: US/10/868,184C

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; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06059
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06042
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06014
; PRIOR FILING DATE: 2000-03-09
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13046
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1624
; LENGTH: 2388
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-868-184C-1624

Query Match      2.6%; Score 34; DB 6; Length 2388;
Best Local Similarity 52.1%; Pred. No. 4.9;
Matches 76; Conservative 0; Mismatches 70; Indels 0; Gaps 0;

QY 336 TTATATGAGACATTAAAGAAAGATTATGCTCGGTACAGTAAGAGAGAAATCGATGA 395
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 955 TTACTGTAACAGACTTTTACTACGAAGTGTAAATGGAAGTCAGGACCCCAAAATGGAGG 1014
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 396 TATGATAGAGACCTAGGAGATGAATATGGATGGAACACAGGTGCATGGAGATGTATTTAG 455
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1015 ACTGCTGAAGCCATGGCAGAGACATAAATTGTGAAGATTTCATGCACATTATTATTAGT 1074
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 456 ACCATCAAGTCACCCACTGATATTTT 481
    ||||| ||||| ||||| ||||| |||||
Db 1075 TCCCAAAATTATATACTTTTATAATTT 1100
    ||||| ||||| ||||| ||||| |||||
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RESULT 15
US-10-868-184C-10177
; Sequence 10177, Application US/10968184C
; GENERAL INFORMATION:
; APPLICANT: Rosen, et. al
; TITLE OF INVENTION: Human Secreted Proteins
; FILE REFERENCE: PS805
; CURRENT APPLICATION NUMBER: US/10/868,184C
; CURRENT FILING DATE: 2004-06-16
; PRIOR APPLICATION NUMBER: 60/278,650
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: 09/833,245
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US01/11988
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: PCT/US00/06043
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06012
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06058
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06044
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06059
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06042
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/US00/06014
; PRIOR FILING DATE: 2000-03-09
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 13046
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10177
; LENGTH: 21371
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (6392)
; OTHER INFORMATION: n equals a,t,g, or c
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US-10-868-184C-10177

Query Match      2.6%; Score 34; DB 6; Length 21371;
Best Local Similarity 56.1%; Pred. No. 10;
Matches 64; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 969 AATTTTACCTTTTGGTTCAATCTTTATTGAAATGTAATTCATCTTCACGTCTTTCTGGGC 1028
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 19822 AACTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTC 19881
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

QY 1029 ATATAAGATCTATTATGTCTATGGCTTCATGATGCTGCTGGTATCCTGTG 1082
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 19882 TTACATGGTTCTGCTGGATTACATTTGCTGATGCTGCTGCTGCTGCTGCTG 19935
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Search completed: December 13, 2005, 20:01:04  
Job time : 32.154 secs

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Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	1800	100.0	1827	3	US-09-786-681A-3		Sequence 3, Appli
2	1800	100.0	2072	3	US-09-786-681A-1		Sequence 1, Appli
3	444	24.7	444	3	US-09-621-976-18829		Sequence 18829, A
4	383.4	21.3	440	3	US-09-513-999C-3708		Sequence 3708, Ap
C 5	369.8	20.5	771	3	US-09-270-767-679		Sequence 679, App
C 6	369.8	20.5	771	3	US-09-270-767-15961		Sequence 15961, A
7	364.8	20.3	433	3	US-09-513-999C-3502		Sequence 3502, Ap
8	230.8	12.8	571	3	US-09-270-767-28434		Sequence 28434, A
9	230.8	12.8	1151	3	US-09-270-767-12533		Sequence 12533, A
10	227.6	12.6	2391	3	US-09-949-016-3623		Sequence 3623, Ap
11	227.6	12.6	2805	3	US-08-959-004-6		Sequence 6, Appli
12	226	12.6	1878	3	US-10-104-047-1699		Sequence 1699, Ap
13	161.2	9.0	995	3	US-09-270-767-14715		Sequence 14715, A
14	132.8	7.4	726	3	US-09-248-796A-6208		Sequence 6208, Ap
15	101	5.6	222	3	US-09-313-294A-2292		Sequence 2292, Ap
C 16	91.6	5.1	769	3	US-09-385-982-530		Sequence 530, App
C 17	64.6	3.6	302	3	US-09-702-705-1002		Sequence 1002, Ap
C 18	64.6	3.6	302	3	US-09-736-457-1002		Sequence 1002, Ap
C 19	64.6	3.6	302	3	US-09-614-124B-1002		Sequence 1002, Ap
C 20	64.6	3.6	302	3	US-09-671-325-1002		Sequence 1002, Ap
C 21	64.6	3.6	302	3	US-09-658-824-1002		Sequence 1002, Ap
C 22	64.6	3.6	302	3	US-10-017-754-1002		Sequence 1002, Ap
C 23	64.6	3.6	302	3	US-09-651-563-1002		Sequence 1002, Ap
24	56.4	3.1	279	3	US-09-313-294A-4533		Sequence 4533, Ap



Db	1445	GGGCATATAAGATCTATTATGTCTATGGCTTCAATGATGCTGGTGGTATTCCTGTGCA	1504
Qy	1441	TTGTGACTGTCGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC	1500
Db	1505	TTGTGACTGTCGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAGATTACC	1564
Qy	1501	GGTGGCAATGGACAAAGTTTTTCTCTGTGTCATCAACTGCAATCTATGTTTACATGTATT	1560
Db	1565	GGTGGCAATGGACAAAGTTTTTCTCTGTGTCATCAACTGCAATCTATGTTTACATGTATT	1624
Qy	1561	CCTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTTCAAAACATCATTTTACT	1620
Db	1625	CCTTTACTACTATTTTTTCAAAACAAAGATGTATGGCTTATTTTCAAAACATCATTTTACT	1684
Qy	1621	TTGGATATATGGCGGTATTATTAGCACAGCCTTGGGGATAATGCTGGAGCGATTGGTTACA	1680
Db	1685	TTGGATATATGGCGGTATTATTAGCACAGCCTTGGGGATAATGCTGGAGCGATTGGTTACA	1744
Qy	1681	TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAAATTGACTAGAGACCCA	1740
Db	1745	TGGGAACAAGTGCCTTTGTCCGAAAAATCTATACTAATGTGAAAAATTGACTAGAGACCCA	1804
Qy	1741	AGAAAACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACCTTGCAACAGCAAAA	1800
Db	1805	AGAAAACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACCTTGCAACAGCAAAA	1864
RESULT 3			
US-09-621-976-18829			
; Sequence 18829, Application US/09621976			
; Patent No. 6639063			
; GENERAL INFORMATION:			
; APPLICANT: Dumas Milne Edwards, J.B.			
; APPLICANT: Jobert, S.			
; APPLICANT: Giordano, J.Y.			
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.			
; FILE REFERENCES: GENSET.054PR2			
; CURRENT APPLICATION NUMBER: US/09/621,976			
; CURRENT FILING DATE: 2000-07-21			
; NUMBER OF SEQ ID NOS: 19335			
; SOFTWARE: Patent.pm			
; SEQ ID NO 18829			
; LENGTH: 444			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
US-09-621-976-18829			
Query Match 24.7%; Score 444; DB 3; Length 444;			
Best Local Similarity 100.0%; Pred. No. 1.4e-107;			
Matches 444; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy	486	CTAACTAGTGAAGAAAGGTGAACTGGTTCAAAATCTAAATCCAGATGTCATATTCA	545
Db	1	CTAACTAGTGAAGAAAGGTGAACTGGTTCAAAATCTAAATCCAGATGTCATATTCA	60
Qy	546	GTAATATGGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTGCACAAATATCTTGATCCG	605
Db	61	GTAATATGGAAAAAGTCAGATGTGAAATTTGAAGATCGAATTGCACAAATATCTTGATCCG	120
Qy	606	TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTTCAACTCCCTTCATGATGGTGATC	665
Db	121	TCCTTTTTTCAACATCGGATTCATTGGTTTTCAATTTTTCAACTCCCTTCATGATGGTGATC	180
Qy	666	TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAAGAAAGATTATGCTCGG	725
Db	181	TTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGAACATTAAAGAAAGATTATGCTCGG	240
Qy	726	TACAGTAAAGAGCAAGAAATGGATGATATGATAGAGACCTAGGAGATGAATATGATCGG	785
Db	241	TACAGTAAAGAGCAAGAAATGGATGATATGATAGAGACCTAGGAGATGAATATGATCGG	300
Qy	786	AAACAGGTGCATGGAGATGTATTTTAGACCATCAATCAAGTCACCCACTGATATTTTCTCTCTG	845



Db 765 GTCAATGGAAGCCAGCAAGTGGAGTTCAGAAATCGAATTCGACAAAGTACCTGGATCCC 706  
Qy 606 TCCTTTTTCACATCGGATTCATTTGTTTCAATTTTCAACTCTCTCATGATGGTATC 665  
Db 705 AACTTCTTCCAGCAGGATCCATGGTTCAGCATCTTCAACAGCTTCATGATGTATC 646  
Qy 666 TTCTTGGGGCTTGGTTCATGATTTTAAATGAGAAATTAAGAAAGATTAATCTCGG 725  
Db 645 TTCTTGGGGCTTGGTTCATGATTTTAAATGAGAAATTAAGAAAGATTAATCTCGG 586  
Qy 726 TACAGTAAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 785  
Db 585 TACAGTAAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 526  
Qy 786 AAACAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 845  
Db 525 AAGCAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 466  
Qy 846 ATGAGTTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 905  
Db 465 GTGGCGCTGGATACCACTGATTTGGTGTGATTTCTGTGATCATGTTCCCATAGTT 406  
Qy 906 GAAGATTTATATACATGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATGCT 965  
Db 405 GGTGAATTTATACAGGAAACGGGCTCCATGCTCCACGGCTATATTTGTTGATGCG 346  
Qy 966 AGCTCTCCAGTGAATGGTATTTTGGAGGAAGTCTGTATGCTAGACAGGAGGAGAGA 1025  
Db 345 ACCTCACCACCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 286  
Qy 1026 TGGATAAGCAGATGATTTATTTGGGAGCATTCCTATCCAGCTATGCTGTGGGCACTGCC 1085  
Db 286 TGGATCCAGACATGCTGTGCTCCGCTTTTACAGTTCCAGTGGCTGTGTGGGCACTGCC 226  
Qy 1086 TTCTTCAATCAATTCATAGCCATTTATTTACCATGCTTCAAGAGCCATTCCTTTTGGAA 1145  
Db 225 TTCTTCAATCAATTCATAGCCATTTATTTACCATGCTTCAAGAGCCATTCCTTTTGGAA 166  
Qy 1146 ATGGTGGCGGTTTGTGATCTGTTTGTGATCTTCTTCTTCTTCTTCTTCTTCTTCT 1205  
Db 165 ATGGTGGCGGTTTGTGATCTGTTTGTGATCTTCTTCTTCTTCTTCTTCTTCTTCT 106  
Qy 1206 ATACTTGGCGGAAATCTGTCAAGTTCAGCCCACTTTTCTTCTTCTTCTTCTTCTTCT 1265  
Db 105 GTCTGGCGGCAATCTGGACGGCAACCGGACTTTTCCATGCGCGTCAACGCGGTGCCA 46  
Qy 1266 CGTCTATACCGGAGAAATGTTTCATGAGCCTCGGTTATT 1310  
Db 45 CGACCCATTCCCGAAAGAGTGGTACATGAGCCACTGATTATT 1

RESULT 6  
US-09-270-767-15961/c  
; Sequence 15961, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 15961  
; LENGTH: 771  
; TYPE: DNA  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-15961

Query Match 20.5%; Score 369.8; DB 3; Length 771;  
Best Local Similarity 67.7%; Pred. No. 8.2e-88;  
Matches 518; Conservative 0; Mismatches 247; Indels 0; Gaps 0;

Qy 546 GTAAAAATGAAAAAGTTCAGATGTGAAATTTCAAGATCGATTTGACAAAATATCTTGATCCG 605  
Db 765 GTCAATGGAAGCCAGCAAGTGGAGTTCAGAAATCGAATTCGACAAAGTACCTGGATCCC 706  
Qy 606 TCCTTTTTCACATCGGATTCATTTGTTTCAATTTTCAACTCTCTCATGATGGTATC 665  
Db 705 AACTTCTTCCAGCAGGATCCATGGTTCAGCATCTTCAACAGCTTCATGATGTATC 646  
Qy 666 TTCTTGGGGCTTGGTTCATGATTTTAAATGAGAAATTAAGAAAGATTAATCTCGG 725  
Db 645 TTCTTGGGGCTTGGTTCATGATTTTAAATGAGAAATTAAGAAAGATTAATCTCGG 586  
Qy 726 TACAGTAAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 785  
Db 585 TACAGTAAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 526  
Qy 786 AAACAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 845  
Db 525 AAGCAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 466  
Qy 846 ATGAGTTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 905  
Db 465 GTGGCGCTGGATACCACTGATTTGGTGTGATTTCTGTGATCATGTTCCCATAGTT 406  
Qy 906 GAAGATTTATATACATGAGAGGGATCAATGCTCAGTACAGCCATATTTGCTATGCT 965  
Db 405 GGTGAATTTATACAGGAAACGGGCTCCATGCTCCACGGCTATATTTGTTGATGCG 346  
Qy 966 ACCTCACCACCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 286  
Db 345 ACCTCACCACCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 226  
Qy 1026 TGGATAAGCAGATGATTTATTTGGGAGCATTCCTATCCAGCTATGCTGTGGGCACTGCC 1085  
Db 286 TGGATCCAGACATGCTGTGCTCCGCTTTTACAGTTCCAGTGGCTGTGTGGGCACTGCC 226  
Qy 1086 TTCTTCAATCAATTCATAGCCATTTATTTACCATGCTTCAAGAGCCATTCCTTTTGGAA 1145  
Db 225 TTCTTCAATCAATTCATAGCCATTTATTTACCATGCTTCAAGAGCCATTCCTTTTGGAA 166  
Qy 1146 ATGGTGGCGGTTTGTGATCTGTTTGTGATCTTCTTCTTCTTCTTCTTCTTCTTCT 1205  
Db 165 ATGGTGGCGGTTTGTGATCTGTTTGTGATCTTCTTCTTCTTCTTCTTCTTCTTCT 106  
Qy 1206 ATACTTGGCGGAAATCTGTCAAGTTCAGCCCACTTTTCTTCTTCTTCTTCTTCTTCT 1265  
Db 105 GTCTGGCGGCAATCTGGACGGCAACCGGACTTTTCCATGCGCGTCAACGCGGTGCCA 46  
Qy 1266 CGTCTATACCGGAGAAATGTTTCATGAGCCTCGGTTATT 1310  
Db 45 CGACCCATTCCCGAAAGAGTGGTACATGAGCCACTGATTATT 1

RESULT 7  
US-09-513-999C-3502  
; Sequence 3502, Application US/09513999C  
; Patent No. 6783961  
; GENERAL INFORMATION:  
; APPLICANT: Dumas Milne Edwards, J.B.  
; APPLICANT: Duclert, A.  
; APPLICANT: Giordano, J.Y.  
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.  
; Patent No. 6783961  
; FILE REFERENCE: 59.US2.REG  
; CURRENT APPLICATION NUMBER: US/09/513.999C  
; CURRENT FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: US 60/122,487  
; PRIOR FILING DATE: 1999-02-26  
; NUMBER OF SEQ ID NOS: 36681  
; SOFTWARE: Patent.pm  
; SEQ ID NO 3502  
; LENGTH: 433

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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 100..432
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 86
; OTHER INFORMATION: m=a or c
US-09-513-999C-3502

Query Match      20.3%; Score 364.8; DB 3; Length 433;
Best Local Similarity 98.9%; Pred. No. 1.3e-86;
Matches 366; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 60 CACAGTATCAAGATAAAGAGAGAGAGTGTCTTTATGGATGAATCTGTTGGGCCCTACCAT 119
DB 64 CAGCAGTATCAAGATAAAGAGAGAGTGTCTTTATGGATGAATCTGTTGGGCCCTACCAT 123
QY 120 AATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCGTGTGGGGTCAAAAAAAGT 179
DB 124 AATCGTCAAGAAACATATAAGTACTTTTCACTTCCATTCGTGTGGGGTCAAAAAAAGT 183
QY 180 ATCAGTCATTACCATGAACACTCTGGAGAGCAGCTTCAAGGGTGAATTTGGAATTTAGT 239
DB 184 ATCAGTCATTACCATGAACACTCTGGAGAGCAGCTTCAAGGGTGAATTTGGAATTTAGT 243
QY 240 GGCTCGGATATTAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTTGATTTA 299
DB 244 GGCTCGGATATTAATTTAAAGATGATGTGATGCCAGCCACTTACTGTGAAATTTGATTTA 303
QY 300 GATTAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATG 359
DB 304 GATTAAGAAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTTACTGGTACCAGATG 363
QY 360 TACATAGATGATTTACCAATATGGGTATTTGTTGGTGAGCTGATGAAATGGAGAGAT 419
DB 364 TACATAGATGATTTACCAATATGGGTATTTGTTGGTGAGCTGATGAAATGGAGAGAT 423
QY 420 TACTATCTTT 429
DB 424 TACTATCTTT 433

RESULT 8
US-09-270-767-28434
; Sequence 28434, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28434
; LENGTH: 571
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-28434

Query Match      12.8%; Score 230.8; DB 3; Length 571;
Best Local Similarity 72.7%; Pred. No. 4.7e-51;
Matches 298; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1330 TACCTTTTGGTCAATCTTTTATGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA 1389
DB 1 TGCCCTTTGGATCCATCTTCATTGAGATGTACTTCATCTTCACCTCTCTCTGGGCGTACA 60
QY 1390 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGTGTTATCTCTGTGCAATGTGACTG 1449
DB 61 AGATCTACTACGTCTACGGCTTCATGTTGCTGTTTTTCAGCATCTCTGACTGTGTCACCG 120
QY 1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAAGATTACCGGTGGCAAT 1509
DB 121 TGTGCGTCAACATCGTGTGCACCTACTTCTCTGCTAAATGCCAGGATTACCGATGGCAGT 180
QY 1510 GGACAAAGTTTCTCTCTGTGCAATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1569
DB 181 GGACGAGTTTTCATGGCTGCGGGCTCCACGTCGATTTTACGTGTACGCCATTTCTCTTCTATT 240
QY 1570 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
DB 241 ACTTCTTTTAAACCAAAATGTTCCGCTGTTTCCAAACGGCTTCTACTTTGGGTACA 300
QY 1630 TGGCGGTATTAGCACAGCCTTGGGGATATGTGTGAGCGATTGGTTACATGSGAACAA 1689
DB 301 TGGCACTCTTCAGCGGGCTTGGGCATTTATCTGCGGCACCGTCGGCTATGTGGGCACGA 360
QY 1690 GTGCCCTTTGCCGAAAAATCTATCTAAATGTGAAATTTGACTAGAGACCC 1739
DB 361 ATCTCTTTTGGCGCAAAATCTATTCCAATGTGAAAAATAGACTAAGAGCCC 410

RESULT 9
US-09-270-767-12633
; Sequence 12633, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12633
; LENGTH: 1151
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-12633

Query Match      12.8%; Score 230.8; DB 3; Length 1151;
Best Local Similarity 72.7%; Pred. No. 6.3e-51;
Matches 299; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 1330 TACCTTTTGGTCAATCTTTTATGAAATGTATTTCATCTTCACGTCTTTCTGGGCATATA 1389
DB 1 TGCCCTTTGGATCCATCTTCATTGAGATGTACTTCATCTTCACCTCTCTCTGGGCGTACA 60
QY 1390 AGATCTATTATGTCTATGGCTTCATGATGCTGGTGTGTTATCTCTGTGCAATGTGACTG 1449
DB 61 AGATCTACTACGTCTACGGCTTCATGTTGCTGTTTTTCAGCATCTCTGACTGTGTCACCG 120
QY 1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGCAGAAAGATTACCGGTGGCAAT 1509
DB 121 TGTGCGTCAACATCGTGTGCACCTACTTCTCTGCTAAATGCCAGGATTACCGATGGCAGT 180
QY 1510 GGACAAAGTTTCTCTCTGTGCAATCAACTGCAATCTATGTTTACATGTATTCCTTTTACT 1569
DB 181 GGACGAGTTTTCATGGCTGCGGGCTCCACGTCGATTTTACGTGTACGCCATTTCTCTTCTATT 240
QY 1570 ACTATTTTTTCAAAACAAAGATGTATGGCTTATTTTCAAAACATCATTTTACTTTGGATATA 1629
DB 241 ACTTCTTTTAAACCAAAATGTTCCGCTGTTTCCAAACGGCTTCTACTTTGGGTACA 300
QY 1630 TGGCGGTATTAGCACAGCCTTGGGGATATGTGTGAGCGATTGGTTACATGSGAACAA 1689
DB 301 TGGCACTCTTCAGCGGGCTTGGGCATTTATCTGCGGCACCGTCGGCTATGTGGGCACGA 360
QY 1690 GTGCCCTTTGCCGAAAAATCTATCTAAATGTGAAATTTGACTAGAGACCC 1739
DB 361 ATCTCTTTTGGCGCAAAATCTATTCCAATGTGAAAAATAGACTAAGAGCCC 410
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RESULT 10  
US-09-949-016-3623  
; Sequence 3623, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3623  
; LENGTH: 2391  
; TYPE: DNA  
; ORGANISM: Human  
US-09-949-016-3623

Query Match	12.6%	Score 227.6;	DB 3;	Length 2391;
Best Local Similarity	51.9%	Pred. No. 6.1e-50;		
Matches 596;	Conservative 0;	Mismatches 534;	Indels 18;	Gaps 3;
Qy 592	AATATCTTGATCCGCTCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCAACTCCT	651		
Db 996	ACTATATCTCGAGTCTATGCTCATACCCACATTCAGTGGTTTAGCATTTATGAATCCC	1055		
Qy 652	TCATGATGGTATCTTCTTGGTGGCTTAGTTTCAATGATTTTAATGAGACATTAAGAA	711		
Db 1056	TGGTCATTTCTCTCTTATCTGGAATGGTAGCTATGATTTATGTTACGGACACTGCACA	1115		
Qy 712	AAGATTATGCTCGGTACAGTAAAGAGAAATGGATGATATGATAGACACTAGGAG	771		
Db 1116	AAGATTATGCTAGATATATATCATGAGTGGACTCTACGAGATGCCAG-----G	1163		
Qy 772	ATGAATATGGATGAAACAGGTGATGATGATTTAGACCAATCAAGTCAACCCACTGA	831		
Db 1164	AAGAATTTGGCTGGAACTTGTTCATGTGTATATATCCGCTCCCAAGAAAGGGATGC	1223		
Qy 832	TATTTCTCTCTGATTTGGTCTGATGATCATATTTGCTGTCTCTCATCGTTATTA	891		
Db 1224	TGCTATCATGCTTTCTTAGGATCCGGACACAGATTTTAAATTTATGACCTTTGTGACTAT	1283		
Qy 892	TGTTTGAATGATAGAGATTTATATATCTGAGAGGGATCAATGCTCAGTAC---AGCCA	948		
Db 1284	TTTTCGCTTGGCTGGATTTTGTACCTGCCACCGAGGAGCGCTGATGACGTGTGCTG	1343		
Qy 949	TATTTGTCTATGCTCTACGCTCCAGTGAATGGTTATTTTGGAGGAGTCTGTATGCTA	1008		
Db 1344	TGGTCTCTGGTGTCTGCTGGGCACCCCTGCGAGCTATGTTGCTGCCAGATTTCTAAGT	1403		
Qy 1009	GACAAGGAGGAGGATGATTAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTA	1068		
Db 1404	CTTTTGGAGGTGAGAAGTGGAAACAAATGTTTATTAACATCATTTCTTTGTCTCTGGA	1463		
Qy 1069	TGGTGTGGGCACCTGCTTTCTTCAATTTTATGATGATGATTTTATACCATCTTCAAG	1128		
Db 1464	TGTATTTGCTGACTTCTTTATATGATATGATCTCTGCGGAGAGGATCTTCAGCAG	1523		
Qy 1129	CCATTCTTTTGGAAATGTTGGCGCTTGTGTCATCTGTTTTTTTGTATTTCTTCCTC	1188		
Db 1524	CTATTCTTTTGGGACACTGTTGCCATTTATGGCCCTTTGGTCTGTCATCTGTGCTC	1583		
Qy 1189	TAAATCTTTGTTGATCAATATCTTGGCCGAAATCTGTGTCAGGTCAGCCCACTTTCTGTC	1248		
Db 1584	TGACGTTTATTTGGTGCATCTTGTGTTTAAAGAAAGATGCCATTTGAACAC---CCAGTTC	1640		

Qy 1249	GTGTCAATGCTGCTCGCTCTATACCGGAGAAAAATGTTTCATGAGCTGCGGTTA	1308		
Db 1641	GAACCAATCAGATTCAGTTCAGATTCCTGACAGTCTTACACGAGGCCCTTCCCTG	1700		
Qy 1309	TTGTTTCCCTGGTGGAAATTTTACCTTTTGGTCTCAATCTTTTATTGAAATGATTTCACT	1368		
Db 1701	GTATTATCATGGAGGAGATTTGCCCCTTTGGCTGCATCTTTTATACAACTTTTCTTCAATC	1760		
Qy 1369	TCAGCTCTTTCTGGGCATATAAGATCTATTATGTTATGCTTATGCTTATGCTGCTGG	1428		
Db 1761	TGAATAGTATTGTTGTCACACAGATGATTTACATGTTTGGCTTCTATTTCTGGTGTTA	1820		
Qy 1429	TTATCCTGTGATTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1488		
Db 1821	TCATTTTGGTATTACCTGTTCTGAAGCACTATCTCTTTTGGTATTTCACCTATGCTG	1880		
Qy 1489	CAGAAGATTACCGGTGGCAATGGAAGATTTTCTCTGCTGCTGCTGCTGCTGCTGCTG	1548		
Db 1881	CAGAGGATTATCATTTGGCAATGGGCTTCAITTCCTTACGAGTGGCTTTACTGCACTTAT	1940		
Qy 1549	TTTACATGTTATCTCTTTTACTACTATTTTTCAAAACAAAGATGATGCTTATTTCAA	1608		
Db 1941	TCITTAATCTATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2000		
Qy 1609	CATCATTTTACTTTGGATATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	1668		
Db 2001	CAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2060		
Qy 1669	CGATTGTTACATGGGAACAGTCCCTTTGTCGAAATAATCTATCTAATGTGAAATG	1728		
Db 2061	CAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG	2120		
Qy 1729	ACTAGAGA 1736			
Db 2121	ACTGAGA 2128			

RESULT 11  
US-08-959-004-6  
; Sequence 6, Application US/08959004  
; Patent No. 6197543  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Shah, Purvi  
; APPLICANT: Kaser, Matthew  
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/959,004  
; FILING DATE: Herewith  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749

```
/ REFERENCE/DOCKET NUMBER: PF-0414 US
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 650-855-0555
/ TELEFAX: 650-845-4166
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 6:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 2805 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ IMMEDIATE SOURCE:
/ LIBRARY: ADREUT06
/ CLONE: 2822412
/ US-08-959-004-6

Query Match      12.6%; Score 227.6; DB 3; Length 2805;
Best Local Similarity 51.9%; Pred. No. 6.5e-50;
Matches 596; Conservative 0; Mismatches 534; Indels 18; Gaps 3;

Qy 592 AATATCTTGATCCGTCCTTTTCAACATCGGATTCATTTGGTTTCAATTTTCAACTCCT 651
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1044 ACTATATCTGGAGTCTATGCCTCATACCCACATTCAGTGGTTTATGCAATTAAGAA 1103
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 652 TCATGATGGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAA 711
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1104 TGGTCATTTGTTCTTCTTCTATCTGGAATGGTAGCTATGATGATGATGATGATGATGATGAT 1163
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 712 AAGATTAATGCTCGGTACAGTAAGAGGAAGAAATGGATGATGATGATGATGATGATGATGATGAT 771
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1164 AAGATATTTGCTAGATATATACAGATGAGACTCTCGGAAGATGCCAG-----G 1211
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 772 ATGAATATGGATGAAACAGGTGATGAGATGATTTAGACCATCAAGTCACCCACTGA 831
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1212 AAGAAATTTGGCTGGAACCTTTGTTTCATGATATATTCGGTCTCCCAAGAAAGGGATGC 1271
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 832 TATTTTCTCTGATTTGGTTCTGGATGTCAGATATTTTGGTGTCTCTCATGTTATTA 891
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1272 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAAATATGACCTTTGTGACTCTAT 1331
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 892 TTGTTGCAATGATAGAAGATTTATATATCAGAGGGGATCAATGCTCAGTAC---AGCCA 948
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1332 TTTTCGCTTGCCTGGGATTTTGTACCTGCCAACCCAGAGCGCTGATCAGGTGCTG 1391
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 949 TATTTGTCTATGCTGCTACGCTCCAGTGAATGTTATTTGGAGGAAGTCTGTATGCTA 1008
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1392 TGGTCTGTGGTCTGCTGCGGCCACCCCTGCAGGCTATGTTGCTGCCAGATTTCTATAAGT 1451
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1009 GACAAGGAGNAGAGATGATGATTAAGCAGATGTTTATTTGGGGCATTCCTTATCCAGCTA 1068
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1452 CCTTTGGAGGTGAAGGTGGAACAAATGTTTATTAACATCATTTTCTTTGTCTGGGA 1511
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1069 TGGTGTGTGGCACTGCTTCTTCATCAATTTTATAGCCATTTATACCATGCTTCAAGAG 1128
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1512 TTGTATTTGTGACTCTTTTATATGATCTGATCTCTCGGGAGAAAGGATCTTCAGCAG 1571
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1129 CCATTCCTTTTGGAAACAATGGTGGCCCTTTTGTGTCATCTGTTTGTGTTTATTTCTTCC 1188
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1572 CTATTCCTTTTGGGACACTGGTTGCCATATTTGGCCCTTTTGTCTGTCATATCTGTGCTC 1631
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1189 TAAATCTTTGTTGATCAATACCTTGGCCGAAATCTGTGAGGTGAGCCCACTTCTTCTTGT 1248
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1632 TGACGTTTATTTGGTGCATCTTTTGGTTTAAAGAAAGATGGCATTTGAACAC---CGAGTTC 1688
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1249 GTGTCATGCTGCTCGCTCGTCTATACCGGAGAAAAAATGGTTCATGAGCCCTGCGGTTA 1308
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1689 GAACCATCAGATTCACGTCAGATTCCTGAACTGCTGTAAGAGAGAGAGAGAGAGAGAGAG 1748
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1309 TTGTTTCCCTGGGTGGGAATTTTACCTTTTGGTTCATCTTTTATTTGAAATGATTTTCAATCT 1368
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1749 GTATTATCATGGGAGGATTTTGGCCCTTGGCTGCATCTTTATACAACTTTTCTTCAATTC 1808
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1369 TCAGTCTTTTCTGGGCATATAAGATCTATTTATGCTATGCTTTCATGATGCTGCTGCTG 1428
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Db 1809 TGAATAGTATTTGGTCCACACAGATGATTAATACATGTTTGGCTTCTCTATTTCTGGTGTTA 1868
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1429 TTATCTGTGTCATTTGTGACTGTCTGTGTGACTATTTGTGTGCACATATTTTCTACTAAATG 1488
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1869 TCAITTTGGTTATACCTGTTCTGAAGCAACTATACTTCTTTGCTATTTCCACCTATGTG 1928
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1489 CAGAAGATTACCGGTGGCAATGGACAAGTTTCTCTCTGCTGTCATCAACTGCAATCTATG 1548
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1929 CAGAGGATTATCATTTGGCAATGGCGTTTCATTTCTACGAGTGGCTTTACTGCACTTATT 1988
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1549 TTTACATGATTTCCCTTTTACTACTATTTTTCAAAACAAAGATGATGGCTTATTTCAAA 1608
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1989 TCTTAATCTATGCAGTACACTACTTCTTTTCAAAACTGCAGATCACGGGAACAGCAAGCA 2048
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1609 CATCATTTTACTTTGGATATATGGCGTATTTAGCACAGCCTTTGGGGATAATGTTGCGAG 1668
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2049 CAATTCGTACTTTGGTTATACCATGATGATGTTTGTGATCTTCTTCTTTTACAGGAA 2108
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1669 CGATTGGTTACATGGGAACAAGTGCCTTTGTCCGAAAAAATCTATACATAATGTGAAAAATG 1728
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2109 CAATTGGCTTCTTTGTCATGCTTTTGGTTTGTACCAAAATATACAGTGTGTTGAAGTTG 2168
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1729 ACTAGAGA 1736
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2169 ACTGAAGA 2176
Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 12
US-10-104-047-1699
; Sequence 1699, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: HL-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; PRIOR FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1699
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-1699

Query Match      12.6%; Score 226; DB 3; Length 1878;
Best Local Similarity 51.8%; Pred. No. 1.5e-49;
Matches 595; Conservative 0; Mismatches 535; Indels 18; Gaps 3;

Qy 592 AATATCTTGATCCGTCCTTTTTCACATCGGATTCATTTGGTTTCAATTTTCAACTCCT 651
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 693 ACTATATCTGGAGTCTATGCCCTCATACCCACATTCAGTGGTTTAGCAATTAAGTTCCC 752
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 652 TCATGATGGTGTGATCTTCTTGGTGGCTTAGTTTCAATGATTTTAAATGAGAACATTAAGAA 711
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 753 TGGTCATTTGTTCTTCTTCTTATCTGGAATGGTAGCTATGATTAATGTTACGGACACTGCACA 812
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 712 AAGATATGCTCGGTACAGTAAAGAGAAAGAAATGGATGATGATGATGATGATGATGATGATGAT 771
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 813 AAGATATGCTAGATATAATCAGATGGACTCTACGGAAGATGCCAG-----G 860
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 772 ATCAATATGATGAGAAACAGGTGCATGGAGATGATTTTAGACCATCAAGTCACCCACTGA 831
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 861 AAGATTTGGCTGGAACCTTTGTTCAATGGTATATTTCCGTCCTCCAGAAAGAGGATGC 920
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 832 TATTTTCTCTGATTTGGTTCTGGATGTCAGATATTTTGTCTGTCTCTCATGCTTATTA 891
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 921 TGCTATCAGTCTTTCTAGGATCCGGGACACAGATTTTAAATATGACCTTTGTGACTCTAT 980
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 892 TTGTTCAATGATAGAAGATTTATATATCTGAGAGGGGATCAATGCTCAGTAC---AGCCA 948
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Db 981 TTTTCGCTGCTGGGATTTTGTACCTGCCAACCGAGGAGCGCTGATGACGTGTGCTG 1040  
Qy 949 TATTGTCTATGCTGCTACGCTCTCAGTGAATGTTATTTTGGAGGAAGTCTGTATGCTA 1008  
Db 1041 TGGTCTGCTGGTGTGCTGGGCACTGCTGAGGCTATGTTGCTGCCAGATTTCTATAAGT 1100  
Qy 1009 GACAAGAGGAGGAGATGGAATAAGCAGATGTTTATTGGGGCATCTCTTATCCAGCTA 1068  
Db 1101 CCTTTGGAGGTGAGAGTGGGAACAATGTTTATTAAACATCTTTTGTCTGGGA 1160  
Qy 1069 TGGTGTGGCACTGCTCTTCTCATCAATTTATAGCCATTTATTAACATCTTTCAAGAG 1128  
Db 1161 TTGATTTGCTGACTTCTTTATATGAATCTGATCTCTGGGAGAGGATCTTCAGCAG 1220  
Qy 1129 CCATTCCTTTGGACATGTTGGCCGCTTGTGCACTGTTTTTGTGTTATCTTCTCCTC 1188  
Db 1221 CTATTCCTTTGGGACACTGTTGGCCATATTGGCCCTTTGTTCTGCAATCTCTGGCCTC 1280  
Qy 1189 TAAATCTTTGTTGACATACTTTGGCCGAATCTGTCAGGTGAGCCCACTTTCTCTGTC 1248  
Db 1281 TGACGTTTATTGTTGCATCTTTTGGTTTAAAGAAGATGCCATTGAACAC---CCAGTTC 1337  
Qy 1249 GTGCAATGCTGTGCTCGTCTATPACCGGAGAAAAATGTTTATGAGAGCCTCGGTTA 1308  
Db 1338 GAACCAATCAGATTCACGCTCAGATTCCTGAACAGTCTGTTCTACAGGAAGCCCTTGCCCTG 1397  
Qy 1309 TTGTTGCTGCTGGTGGATTTTACCTTTTGGTTTCAATCTTTTATTGAATGTTTTCATCT 1368  
Db 1398 GTATTATCATGGGAGGGAATTTGGCCCTTTGGCTGCATCTTTATACAACTTTTCTTCATTC 1457  
Qy 1369 TCAGCTCTTTCTGGGCATATAAGATCTATTATGCTATGCTTCAATGCTCATGATGCTGTGCTG 1428  
Db 1458 TGAATAGTATTGTTGCACACAGATGATTAACATGTTTGGCTTCTATTTCTGTTGTTA 1517  
Qy 1429 TTAATCTGTGCAATGTGACTGCTGTGTGACTATTGTGTGCATATTTTCTACTAAATG 1488  
Db 1518 TCAATTTTGGTTATTACCTGTTCTGAAGCAACTATCTTCTTTGCTATTTCACCTATGCTG 1577  
Qy 1489 CAGAAGATTACGGTGGCAATGGACAGTTTCTCTGCTGCTCATCACTGCAATCTATG 1548  
Db 1578 CAGAGGATTATCAATGGCAATGGCGTTCAATCTTCTACAGTGGCTTTACTGCAATTTAT 1637  
Qy 1549 TTTACATGATTTCTTTTACTACTATTATTTTCAAAAACAAGATGATGGCTTTATTTCAA 1608  
Db 1638 TCTTAATCTATGAGTACACTACTTCTTTCAAACTGCAGATCAGGGAACAGAACGC 1697  
Qy 1609 CATCATTTTACTTTGGATATATGGCGTATTAGCACAGCCTTGGGGATATGTGTGAG 1668  
Db 1698 CAATCTGCTACTTTGGTTATACCATGATAATGTTTGTGATCTTCTTTTACAGGAA 1757  
Qy 1669 CGATTGTTACATGGGAACAAGTGGCTTTGTCGGAATACTTACTAATGTGAAAATG 1728  
Db 1758 CAATTTGGCTCTTTGTATGCTTTTGGTTGTGTACCAAAATATACAGTGTGTTGAGGTTG 1817  
Qy 1729 ACTAGAGA 1736  
Db 1818 ACTGAGA 1825

## RESULT 13

US-09-270-767-14715  
; Sequence 14715, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 14715

; LENGTH: 995  
; TYPE: DNA  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-14715

Query Match 9.0%; Score 161.2; DB 3; Length 995;  
Best Local Similarity 59.3%; Pred. No. 1.6e-32;  
Matches 274; Conservative 0; Mismatches 188; Indels 0; Gaps 0;

Qy 31 TGCCCCGAGCCCGGGCGAGCAGCAACACACGATATCAAGATAAAGAGAAAGTTGTCT 90  
Db 532 TGTCACTCTCCAGCGAGATGAGCAATCAAGTACAAATGACCGGAGGAGGTGTAC 591  
Qy 91 TATCGATGAATACATGTTGGGCCCTACCATATCTCAAGAAACATATAAGTACTTTTCCAC 150  
Db 592 TGTGATGAACACAGTGGGCCCTTACCAATCCGAGGAGACGTACCGTACTTCTCTC 651  
Qy 151 TTCCATTTCTGTGGGGTCAAAAAAAGTATCAGTCAATACCATGAAACTCTGGGAGAG 210  
Db 652 TCCCTTTTGCAGTGGCCAAAAGTCTCGATATCCCACTACCAAGAGCGCTGAGCGAGG 711  
Qy 211 CACTTCAAGGGTTGAATTCGAATTTAGTGTCTGGATATTAATTTTAAAGATGATGTA 270  
Db 712 CGCTGCAAGGAGTCCAGCTGGAGTTCAAGTGGCTACGAGATGGAGTTCAAGAGCGACGCC 771  
Qy 271 TGCCAGCCACTTACTGTGAAATTCATTTAGATAAAGAAAAGAGAGATGCATTTGTATATG 330  
Db 772 CCAATCGGTCACTGTCATGTCACCTTGCAGGAGGAGCGCCNAGCATTCACCTATG 831  
Qy 331 CCATPAAAAATCAATTTACTGTGTACAGATGTACATAGATGATTTTACCAATATGGGGTATTG 390  
Db 832 CCGTGAAGAAGAGTACTGTGTACCAATGTACATCGAGTGGACTGCCCATTTTGGGAAAAAG 891  
Qy 391 TTGTTGAGGCTGATGAATAATGGAGAAGATTACTATCTTTGGACCTATATAAAACTTTGAAA 450  
Db 892 TCGGTGAGCGCGACGACGCGATGGCAAGTACTATATCTTCCACGCACAGAAGTTTCGACA 951  
Qy 451 TAGTGTTTTAAATGGAATTCGAATTCGTGATGTTAATCTAACTA 492  
Db 952 TCGCTAATATGGCCAGCAAAATCGTGGATATACCCCTGACCA 993

## RESULT 14

US-09-248-796A-6208  
; Sequence 6208, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN  
; TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12  
; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 6208  
; LENGTH: 726  
; TYPE: DNA  
; ORGANISM: Candida albicans  
US-09-248-796A-6208

Query Match 7.4%; Score 132.8; DB 3; Length 726;  
Best Local Similarity 51.0%; Pred. No. 4.6e-25;  
Matches 367; Conservative 0; Mismatches 347; Indels 6; Gaps 2;  
Qy 1014 GGAGGAGGAGATGATGAAGCAGATCTTTATTGGGCACTTCTTATCCAGCTATGTTG 1073  
Db 13 GGTGTGACAATTTGGAATTTGAATATGTTTTTGACACCAAGTTTTAGTACCGAGATTTTG 72  
Qy 1074 TGTGGCACTGCCTTCTTTCATCAATTTTCATGCCATTTATTATACCATGCTTCAAGAGCCATT 1133

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Db      73  TCTCTGGTTTCGTTGGTGAATTTCTTTTAATTTTCAGTACAATCTTCGTGGCTATT 132
Qy      1134 CTTTTGGAAACAATGGTGGCGTTTGTGCACTGTGTTTTTTTGTATCTTCCTCTAAAT 1193
Db      133  CATATGGGGAACAATGTTTGGCAATGTCTTAATTTGGTTCAATATATCGAATTCCAATTAAGT 192
Qy      1194 CTTCTGGTACAATACTTGGCGGAAATCTGTCAGGTGAGCCCAACTTTCCTTGTGCGTGC 1253
Db      193  GTTAATGGATCAATTTTGTAGCTAGTAATAGACCATTATTATC--GGTACCAGTGAGAACT 249
Qy      1254 AATGCTGTGCTCGTCTCTATACCGGAGAAAAATGGTTTCATGGAGCCTGCGGTTATTGTT 1313
Db      250  AATCAAAATTCAGACAAATTCCTACTCAACCATGGTATTTAAGTACTATCCCGGTAATG 309
Qy      1314 TGCCCTGGGTGAATTTTACCTTTTGGTTCAATCTTTTATGAAATGTATTTTCATCTTCACG 1373
Db      310  TTTATTTTCGGGAATTTTCCCAATTTGGATCAATTCGTGGAATGTATTTTATTATTCA 369
Qy      1374 TCTTCTGGGCATATAGATCTATTATGTCTATGGCTTCATGCTGCTGGTGTGCTGTTATC 1433
Db      370  TCAATTTGGTTTAATAAGATTTTATATGTTGGATTTTATTTTCTGTTTCATATTA 429
Qy      1434 CTGTGCATTTGTGACTGTCTGTGACTATTGTGTGCACATATTTCTACTAAATGCAGAA 1493
Db      430  ATGATTTTAAGTACTAGTATTAAATCTATTTTAATGATTTATTAATCTTTATGTTTCAGAA 489
Qy      1494 GATTACCGGTGGCAATGGACAAGTTTCTCTGCTGCATCAACTGCAATCTATGTTTAC 1553
Db      490  AATTTATAAATGGCAATGGAAATCATTTATTTGTTGGAGGAGTTGTGCAATTTAATGTTT 549
Qy      1554 ATGTATTCCTTTTACTACTATTTTTCAAAACAAGATGTATGGCTTATTTTCAAACATCA 1613
Db      550  ATTCATTCATTTTGTGACTGGTGGTGA---AAAATTTGGTGGATTTAGTTCATTAGTT 606
Qy      1614 TTTTACTTTGGATATATGGCGGTATTTAGCACAGCCTTTGGGATAATGTGTGGAGCGATT 1673
Db      607  TTATACAGTGGTATTACAGCTGATTTTCATTATTAGTTTTCCTTTGTTGGATCAATT 666
Qy      1674 GGTTCATGGGAACAAGTGGCTTTGTCGAAAAATCTATATAATGTGAAAAATTGACTAG 1733
Db      667  GGATTTTATTAGTATTAAATATTGTGAGATTAATTTATGTCAGATTAATTTAAATTTGATTAG 726

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RESULT 15

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US-09-313-294A-2292
; Sequence 2292, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 2292
; LENGTH: 262
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 70052439H1
US-09-313-294A-2292

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Query Match      5.6%; Score 101; DB 3; Length 262;
Best Local Similarity 68.4%; Pred.No. 7.9e-17;
Matches 154; Conservative 0; Mismatches 70; Indels 1; Gaps 1;
Qy      1450 TCTGTGTGACTATTGTGTGCACATATTTTCTACTAAATGAGAAGATTACCGTGGCAAT 1509
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Db      39  TCTGCGTCACTATTGTGGGTACTTATTCTTGTCTGAACGCCGAGAACTACCAATTTGGCAAT 98
Qy      1510 GGACAAAGTTTTTCTCTCTGCTGCAATCAACTGCAATCTATGTTTACATGTATTTCTCTTTTACT 1569
Db      99  GGAGCGTGGTTTTTCTTCTGTCAGCGTCAACCGCTCTGTACGTGTATCTGTACTCCATCTACT 158
Qy      1570 ACTATTTTTTCAAAACAAGATGTATGGCTTATTTTCAAAACATCATTTTACTTTTGGATATA 1629
Db      159  ACTACCATGTGAAGACAAAGATGTCAAGCTTCTTCCAGACAAAGTTTCTATTTTCGGCTACA 218
Qy      1630 TGGCGGTATTTTACACAGCCCTTGGGGATAATGTGTGGAGCGATTG 1674
Db      219  CGCTGATGTTCTGC-CTGGCCTAGGCATACCTTTGTGGAGCTATTG 262

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Search completed: December 13, 2005, 14:52:04  
Job time : 338.937 secs

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QY 241 GTCTGATATTAATTTAAAGATGATGATGCCAGCCACTTACTGTGAAATTTGATTTAG 300  
DB 305 GTCTGATATTAATTTAAAGATGATGATGCCAGCCACTTACTGTGAAATTTGATTTAG 364  
QY 301 ATAAAGAAAGAGAGATGATTTGTATATGCCATAAAAAATCATTTACTGCTACCGATGT 360  
DB 365 ATAAAGAAAGAGAGATGATTTGTATATGCCATAAAAAATCATTTACTGCTACCGATGT 424  
QY 361 ACATAGATGATTTACCAATATGGGTATTTGTTGGTGAGGCTGATGAAATGGAAGATT 420  
DB 425 ACATAGATGATTTACCAATATGGGTATTTGTTGGTGAGGCTGATGAAATGGAAGATT 484  
QY 421 ACTATCTTTGGACCTATAAAAACTTGAATAGTTTTAATGGAATCGAATTTGTTGATG 480  
DB 485 ACTATCTTTGGACCTATAAAAACTTGAATAGTTTTAATGGAATCGAATTTGTTGATG 544  
QY 481 TTAATCTAATAGTGAAGAAAGGTGAAACTGGTTCCTCAAAATCTATAAATCCAGATGTCA 540  
DB 545 TTAATCTAATAGTGAAGAAAGGTGAAACTGGTTCCTCAAAATCTATAAATCCAGATGTCA 604  
QY 541 ATTCAGTAAATGGAAGAAAGTCAGATGTAATTTGAAGATCGATTTGACAAATATCTTTG 600  
DB 605 ATTCAGTAAATGGAAGAAAGTCAGATGTAATTTGAAGATCGATTTGACAAATATCTTTG 664  
QY 601 ATCCGTCCTTTTCAACATCGGATTCATTTGGTTTTCATTTTCAATTTTCAACTCCTTCATGATGG 660  
DB 665 ATCCGTCCTTTTCAACATCGGATTCATTTGGTTTTCATTTTCAACTCCTTCATGATGG 724  
QY 661 TGATCTTCTGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 720  
DB 725 TGATCTTCTGTGGGCTTAGTTTCAATGATTTTAATGAGAACATTAAGAAAAGATTATG 784  
QY 721 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGATATG 780  
DB 785 CTCGGTACAGTAAAGAGGAAGAAATGGATGATATGGATAGAGACCTAGGAGATGATATG 844  
QY 781 GATGAAACAGGTGCAATGAGATGATTTTAGACCAATCAAGTCACCCACATGATTTTCT 840  
DB 845 GATGAAACAGGTGCAATGAGATGATTTTAGACCAATCAAGTCACCCACATGATTTTCT 904  
QY 841 CTCTGATGTTCTGGATGTCAGATATTTGCTGTCTCTCATCGTATTTATTTGTCGAA 900  
DB 905 CTCTGATGTTCTGGATGTCAGATATTTGCTGTCTCTCATCGTATTTATTTGTCGAA 964  
QY 901 TGAATAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTATG 960  
DB 965 TGAATAGATTTATATATCTAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTATG 1024  
QY 961 CTGCTACGTCCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAGGAGGAA 1020  
DB 1025 CTGCTACGTCCTCAGTGAATGGTTATTTTGGAGGAAGTCTGTATGCTAGACAGGAGGAA 1084  
QY 1021 GGAGATGGAATAAGCAGATGTTTATTTGGGGCATTCCTATCCAGCATGTGTTGGCA 1080  
DB 1085 GGAGATGGAATAAGCAGATGTTTATTTGGGGCATTCCTATCCAGCATGTGTTGGCA 1144  
QY 1081 CTGCTCTTCTCATCAATTTATAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTG 1140  
DB 1145 CTGCTCTTCTCATCAATTTATAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTG 1204  
QY 1141 GAACAATGCTGCGGTTTGTGATCTGTTTATTTTGTATTTCTCTCTAAATCTGTTG 1200  
DB 1205 GAACAATGCTGCGGTTTGTGATCTGTTTATTTTGTATTTCTCTCTAAATCTGTTG 1264  
QY 1201 GTACAATCTTGGCCGAAATCTGTGAGTCAGCCCAACTTTCTGTGTCGTCAATGCTG 1260  
DB 1265 GTACAATCTTGGCCGAAATCTGTGAGTCAGCCCAACTTTCTGTGTCGTCAATGCTG 1324  
QY 1261 TGCCTGCTCTATACCGGAGAAAAATGGTTTATGAGAGCCTGGGTTATTTGTCCTGG 1320  
DB 1325 TGCCTGCTCTATACCGGAGAAAAATGGTTTATGAGAGCCTGGGTTATTTGTCCTGG 1384

QY 1321 GTGGAATTTTACCTTTTGGTTCAAATCTTTATTGAAATGATTTTTCATCTTTCAGCTCTTTCT 1380  
DB 1385 GTGGAATTTTACCTTTTGGTTCAAATCTTTATTGAAATGATTTTTCATCTTTCAGCTCTTTCT 1444  
QY 1381 GGGCATATAAGATCTATTATGTTATGCTTCATGCTTCATGATGCTGCTGGTTATCTCTGTGCA 1440  
DB 1445 GGGCATATAAGATCTATTATGTTATGCTTCATGCTTCATGATGCTGCTGGTTATCTCTGTGCA 1504  
QY 1441 TTGTGACGTGCTGCTGACTATTTGTTGTCACATATTTTCTACTAAATGCAAGATTACC 1500  
DB 1505 TTGTGACGTGCTGCTGACTATTTGTTGTCACATATTTTCTACTAAATGCAAGATTACC 1564  
QY 1501 GGTGCAATGGAACAAGTTTCTCTCTGCTGCAATCAATGCAATCTATGTTTACATGATT 1560  
DB 1565 GGTGCAATGGAACAAGTTTCTCTCTGCTGCAATCAATGCAATCTATGTTTACATGATT 1624  
QY 1561 CCTTTTACTACTATTTTTCAAAAAAGATGATGCTTATTTTCAAAACATCATTTTACT 1620  
DB 1625 CCTTTTACTACTATTTTTCAAAAAAGATGATGCTTATTTTCAAAACATCATTTTACT 1684  
QY 1621 TTGGATATATGCGGTATTTAGCACAGCCTTGGGATATATGTTGGAGCGATTGGTTACA 1680  
DB 1685 TTGGATATATGCGGTATTTAGCACAGCCTTGGGATATATGTTGGAGCGATTGGTTACA 1744  
QY 1681 TGGGAACAAGTCCCTTTTGTCCGAAAAATCTATACTAAATGTAATAATTTGACTAGAGACCCA 1740  
DB 1745 TGGGAACAAGTCCCTTTTGTCCGAAAAATCTATACTAAATGTAATAATTTGACTAGAGACCCA 1804  
QY 1741 AGAAAACTGGAACCTTTGGATCAATTTCTTTTTCATAGGGTGGAACTTTGCAACAGCAAAA 1800  
DB 1805 AGAAAACTGGAACCTTTGGATCAATTTCTTTTTCATAGGGTGGAACTTTGCAACAGCAAAA 1864

RESULT 3

US-09-814-353-21837  
; Sequence 21837, Application US/09814353  
; Publication No. US20030165831A1  
; GENERAL INFORMATION:  
; APPLICANT: Thompson, Pamela  
; APPLICANT: Lillie, James  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; FILE REFERENCE: MRI-006B  
; CURRENT APPLICATION NUMBER: US/09/814,353  
; PRIOR FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: US 60/191,031  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: US 60/207,124  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: US 60/211,940  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: US 60/216,820  
; PRIOR FILING DATE: 2000-07-07  
; PRIOR APPLICATION NUMBER: US 60/220,661  
; PRIOR FILING DATE: 2000-07-25  
; PRIOR APPLICATION NUMBER: US 60/257,672  
; PRIOR FILING DATE: 2000-12-21  
; NUMBER OF SEQ ID NOS: 22037  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 21837  
; LENGTH: 3508  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: 1..2..3506, 3507, 3508  
; OTHER INFORMATION: n = A,T,C or G

Query Match 100.0%; Score 1800; DB 3; Length 3508;  
Best Local Similarity 100.0%; Pred. No. 0;











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QY 1745 AACCTGGAACCTTGGATCAATTTCTTTTCATAGGGGTGGAACCTGCACAGCAAAA 1800
Db |||||||
1741 AACCTGGAACCTTGGATCAATTTCTTTTCATAGGGGTGGAACCTGCACAGCAAAA 1796
|||||

RESULT 7
US-09-915-582-29
; Sequence 29, Application US/09915582
; Patent No. US20020120103A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 17 Human Secreted Proteins
; FILE REFERENCE: PS723P1
; CURRENT APPLICATION NUMBER: US/09/915,582
; CURRENT FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: PCT/US01/01431
; PRIOR FILING DATE: 2001-01-17
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR FILING DATE: 2000-01-31
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/231,968
; PRIOR FILING DATE: 2000-09-12
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 3076
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3084)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-915-582-29

Query Match 97.4%; Score 1753; DB 3; Length 3076;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;

QY 18 CTGCTGCTGCTGCTGCCCGGACCCGGCGGACGAGCACGACACACAGTATCAAGATAAA 77
Db |||||||
13 CTGCAGGTACCGGTCCGGAATTTCCGGGTGCAGSCACGCGMCGCACGATCAAGATAAA 72
|||||

QY 78 GAGGAAGTTGCTTATGGATGAATACTGTTGGGCCCTACCAATACTGTCAGAAACAATAT 137
Db |||||||
73 GAGGAAGTTGCTTATGGATGAATACTGTTGGGCCCTACCAATACTGTCAGAAACAATAT 132
|||||

QY 138 AAGTACTTTTTCACATTCCTGTTGGGTCAAAAAAAGTATCAGTCAATTACCATGAA 197
Db |||||||
133 AAGTACTTTTTCACATTCCTGTTGGGTCAAAAAAAGTATCAGTCAATTACCATGAA 192
|||||

QY 198 ACTCGGAGAGACATTCAGGGGTTGAAITGGAAATTTAGTGGTCTGGATATTAATTT 257
Db |||||||
193 ACTCGGAGAGACATTCAGGGGTTGAAITGGAAATTTAGTGGTCTGGATATTAATTT 252
|||||

QY 258 AAAGATGATGATGCCAGCCACTTACTGTGAATTTGATTAAGATAAGAAAGAGAGAT 317
Db |||||||
253 AAAGATGATGATGCCAGCCACTTACTGTGAATTTGATTAAGATAAGAAAGAGAGAT 312
|||||

QY 318 GCATTTGTATATGCCATAAAAAATCATTTACTGTGTACAGATGTACATAGATGATTTACCA 377
Db |||||||
313 GCATTTGTATATGCCATAAAAAATCATTTACTGTGTACAGATGTACATAGATGATTTACCA 372
|||||

QY 378 ATATGGGGTATTTGTTGGTGGCTGTAGTGAATTTGATGATGATGATGATGATGATGAT 437
Db |||||||
373 ATATGGGGTATTTGTTGGTGGCTGTAGTGAATTTGATGATGATGATGATGATGATGAT 432
|||||

QY 438 AAAAACTTGAATAGGTTTAAATGGAATCGAATTTGATGATGATGATGATGATGATGATGAT 497
Db |||||||
433 AAAAACTTGAATAGGTTTAAATGGAATCGAATTTGATGATGATGATGATGATGATGATGAT 492
|||||

QY 498 GGAAGGTGAAACTGGTTCCAAATACTAAATCCAGATGTCATATTCAGTAAAAATGGAAA 557
Db |||||||
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Db 493 GGAAGGTGAAACTGGTTCCAAATACTAAATCCAGATGTCATATTCAGTAAAAATGGAAA 552
QY 558 AAGTCAGATGTGAAATTTTGAAGATCGATTTTGACAAATATCTTGATCCGTCCTTTTTCAA 617
Db |||||||
553 AAGTCAGATGTGAAATTTTGAAGATCGATTTTGACAAATATCTTGATCCGTCCTTTTTCAA 612
|||||

QY 618 CATCGGATTCATTTGGTTTTTCAATTTTCAATCCCTTCATGATGGTGATCTTCTTGGTGGC 677
Db |||||||
613 CATCGGATTCATTTGGTTTTTCAATTTTCAATCCCTTCATGATGGTGATCTTCTTGGTGGC 672
|||||

QY 678 TTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGATATGCTCGGTACAGTAAAGAG 737
Db |||||||
673 TTAGTTTCAATGATTTTAAATGAGAACATTAAGAAAAGATATGCTCGGTACAGTAAAGAG 732
|||||

QY 738 GAAGAAATGGATGATATGGATAGAGACCTTAGGAGATGAATATGGATGGAAACAGGTGCAT 797
Db |||||||
733 GAAGAAATGGATGATATGGATAGAGACCTTAGGAGATGAATATGGATGGAAACAGGTGCAT 792
|||||

QY 798 GGAGATGATATTTAGACCATCAAGTCAACCACTGATATTTTCTCTCTGATGGTTCTGGA 857
Db |||||||
793 GGAGATGATATTTAGACCATCAAGTCAACCACTGATATTTTCTCTCTGATGGTTCTGGA 852
|||||

QY 858 TGTGAGATATTTGCTGCTCTCTCATCGTTATTTGTTGCAATGATAGAGATTTATAT 917
Db |||||||
853 TGTGAGATATTTGCTGCTCTCTCATCGTTATTTGTTGCAATGATAGAGATTTATAT 912
|||||

QY 918 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTCTATGCTGCTCCTCCAGTG 977
Db |||||||
913 ACTGAGAGGGGATCAATGCTCAGTACAGCCATATTTGCTCTATGCTGCTCCTCCAGTG 972
|||||

QY 978 AATGGTTATTTTGGAGAGAGTCTGTATGCTAGACAAGAGAGAGAGATGGATAAAGCAG 1037
Db |||||||
973 AATGGTTATTTTGGAGAGAGTCTGTATGCTAGACAAGAGAGAGAGATGGATAAAGCAG 1032
|||||

QY 1038 ATGTTTATTTGGGGCATTCCCTTATCCAGCTATGCTGTGGGCTGCTCTTCTCATCAAT 1097
Db |||||||
1033 ATGTTTATTTGGGGCATTCCCTTATCCAGCTATGCTGTGGGCTGCTCTTCTCATCAAT 1092
|||||

QY 1098 TTCATAGCCATTTATACCATGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCCGTT 1157
Db |||||||
1093 TTCATAGCCATTTATTTACCATGCTTCAAGAGCCATTCCTTTTGGAAACAATGGTGGCCGTT 1152
|||||

QY 1158 TGTGATCTGTTTTTTTGTATTTCTCTCTAAATCTTGTGGTACAATACTTGGCCGA 1217
Db |||||||
1153 TGTGATCTGTTTTTTTGTATTTCTCTCTAAATCTTGTGGTACAATACTTGGCCGA 1212
|||||

QY 1218 AATCTGTCAAGTCAAGCCCAACTTTCTTGTGCTGTCATGCTGCTGCTCTCTATACCG 1277
Db |||||||
1213 AATCTGTCAAGTCAAGCCCAACTTTCTTGTGCTGTCATGCTGCTGCTCTCTATACCG 1272
|||||

QY 1278 GAGAAAAATGGTTCAATGGAGCCCTGCGGTTATTTGCTGCTGGGTGGAATTTTACCTTTT 1337
Db |||||||
1273 GAGAAAAATGGTTCAATGGAGCCCTGCGGTTATTTGCTGCTGGGTGGAATTTTACCTTTT 1332
|||||

QY 1338 GGTTCATCTTTATGAAATGATTTTCACTTCAAGCTCTTTCGGGCAATATAGATCTAT 1397
Db |||||||
1333 GGTTCATCTTTATGAAATGATTTTCACTTCAAGCTCTTTCGGGCAATATAGATCTAT 1392
|||||

QY 1398 TATGCTATGGCTTCAATGATGCTGGTGTATCTGTGCAATTTGTGACTGTCTGTGTG 1457
Db |||||||
1393 TATGCTATGGCTTCAATGATGCTGGTGTATCTGTGCAATTTGTGACTGTCTGTGTG 1452
|||||

QY 1458 ACTATTTGTGCAATATTTTCTACTAAATGCAAGAGATTTACCGGTGGCAATGGACAAGT 1517
Db |||||||
1453 ACTATTTGTGCAATATTTTCTACTAAATGCAAGAGATTTACCGGTGGCAATGGACAAGT 1512
|||||

QY 1518 TTTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTTTTACTACTATTTT 1577
Db |||||||
1513 TTTCTCTGCTGCATCAACTGCAATCTATGTTTACATGATTTCTTTTACTACTATTTT 1572
|||||

QY 1578 TTTCAAAACAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTTGGATATATGGCGGTA 1637
Db |||||||
1573 TTTCAAAACAAAGATGATGGCTTATTTTCAAAACATCATTTTACTTTTGGATATATGGCGGTA 1632
|||||
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QY 1638 TTTAGCACACGCTTGGGATAAATGTTGGAGCGATTGGTTACATGGAAACAAGTGCTTTT 1697  
Db 1633 TTTAGCACACGCTTGGGATAAATGTTGGAGCGATTGGTTACATGGAAACAAGTGCTTTT 1692  
QY 1698 GTCCGAAAAATCTATCTAATGTGAAAAATTTGACTAGAGACCCCAAGAAAACTTGGAACTTTT 1757  
Db 1693 GTCCGAAAAATCTATCTAATGTGAAAAATTTGACTAGAGACCCCAAGAAAACTTGGAACTTTT 1752  
QY 1758 GGATCAATTTCTTTTTCATAGGGGTGGAACCTTGACAGCAAAA 1800  
Db 1753 GGATCAATTTCTTTTTCATAGGGGTGGAACCTTGACAGCAAAA 1795  
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US-10-277-802-29  
; Sequence 29, Application US/10277802  
; Publication No. US20030190707A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723P1  
; CURRENT APPLICATION NUMBER: US/10/277,802  
; CURRENT FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 09/915,582  
; PRIOR FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-277-802-29  
Query Match 97.4%; Score 1753; DB 6; Length 3076;  
Best Local Similarity 98.8%; Pred. No. 0;  
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;  
QY 18 CTGCTGCTGCTGCTGCCCGGACCCGGCGGAGCAGCAACAACACGATCAAGATAAA 77  
Db 13 CTGCAGGTACCGGTCCGGAATTTCCCGGGGTGCGACSCACGCMWCGCACGATCAAGATAAA 72  
QY 78 GAGGAAGTTGTTCTTATGGATGAATACTGTTGGGCCCTACCAATAATCGTCAAGAAACATAT 137  
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QY 138 AAGTACTTTTTCATCTTCCATCTGTGTGGGGTCAAAAAAAGATCATCATTTACCATGAA 197  
Db 133 AAGTACTTTTTCATCTTCCATCTGTGTGGGGTCAAAAAAAGATCATCATTTACCATGAA 192  
QY 198 ACTCTGGGAGAGCACTTCAAGGGGTGAATTTGGAATTTAGTGGTCTGATATTAATTT 257  
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Db 1273 GAGAAAAATGGTTTCATGAGCCCTGGGTATTGTTTGGCTGGGTGGAATTTTACCTTTT 1332  
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Db 1513 TTTCTCTCTGCTGCAATCAACTGCAATCTATGTTTACATGTAATTCCTTTTACTACTATTTT 1572  
Qy 1578 TTCAAAACAAAGATGTATGGCTTATTTTCAAAACATCATTTTACTTTGGATATATGCGCGTA 1637  
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Qy 1638 TTTAGCACAGCCTTGGGATATGTTGGAGCGATTGGTTACATGGGAACAGTGCCTTT 1697  
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Qy 1698 GTCCGAAAAATCTATACTAAATGTGAAAATTGCACTAGAGACCCAAAGAAAACCTGGAACCTTT 1757  
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Qy 1758 GGATCAATTTCTTTTTCATAGGGTGGAACTTGCACAGCAAAA 1800  
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RESULT 9

US-10-896-972-29  
; Sequence 29, Application US/10896972  
; Publication No. US20050032168A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 17 Human Secreted Proteins  
; FILE REFERENCE: PS723P1  
; CURRENT APPLICATION NUMBER: US/10/896,972  
; CURRENT FILING DATE: 2004-07-23  
; PRIOR APPLICATION NUMBER: US/09/915,582  
; PRIOR FILING DATE: 2001-07-27  
; PRIOR APPLICATION NUMBER: PCT/US01/01431  
; PRIOR FILING DATE: 2001-01-17  
; PRIOR APPLICATION NUMBER: 60/179,065  
; PRIOR FILING DATE: 2000-01-31  
; PRIOR APPLICATION NUMBER: 60/180,628  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: 60/231,968  
; PRIOR FILING DATE: 2000-09-12  
; NUMBER OF SEQ ID NOS: 97  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 29  
; LENGTH: 3076  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (3064)  
; OTHER INFORMATION: n equals a,t,g, or c  
US-10-896-972-29

Query Match 97.4%; Score 1753; DB 8; Length 3076;  
Best Local Similarity 98.8%; Pred. No. 0;  
Matches 1762; Conservative 3; Mismatches 18; Indels 0; Gaps 0;  
Qy 18 CTGCTGCTGCTGCTGCCCGACCGCGGACGACGACGACGACGACGACGATATCAAGATAAA 77  
Db 13 CTGCAGGTACCGGTCCCGAAATTCCTGGGTGCACSCACGCGMCGCACGTATCAAGATAAA 72  
Qy 78 GAGGAAGTTGCTTATGATGAATACCTGTTGGGCCCTTACCATAATCGTCAAGAAACATAT 137  
Db 73 GAGGAAGTTGCTTATGATGAATACCTGTTGGGCCCTTACCATAATCGTCAAGAAACATAT 132  
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Qy 258 AAAGATGATGATGATGCGAGCCACTTACTGTGAAATTTGATTTAGATAAAGAAAACAGAGAT 317  
Db 253 AAAGATGATGATGATGCGAGCCACTTACTGTGAAATTTGATTTAGATAAAGAAAACAGAGAT 312  
Qy 318 GCATTTGTATATGCCATAAAATCAATTTACTGGTACCAGATGTACATAGATGATTTACCA 377  
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Qy 498 GGAAGGTGAAACTGGTTCCAAATCTAAATCCAGATGTATATTCAGTAAAAATGAAA 557  
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Qy 1158 TGTGTCATCTGTTTTTTTGTGTTATTTCTTCTCTAAATCTTGTGTTGTAACAATCTTTGGCCGA 1217  
Db 1153 TGTGTCATCTGTTTTTTTGTGTTATTTCTTCTCTAAATCTTGTGTTGTAACAATCTTTGGCCGA 1212  
Qy 1218 AATCTGTGAGGTGAGCCCAACTTTCTTGTGCTGATCAATGCTGTGCTCGTCTTATACCG 1277  
Db 1213 AATCTGTGAGGTGAGCCCAACTTTCTTGTGCTGATCAATGCTGTGCTCGTCTTATACCG 1272  
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Qy 1320 GGTGGAATTTTACCTTTTGGTTTCAATCTTTATGAAATGTATTTTCATCTTCAACGCTTTTC 1379  
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Qy 1800 A. 1800  
Db 1847 A. 1847

RESULT 12  
US-10-287-436A-335  
; Sequence 335, Application US/10287436A  
; Publication No. US20050202421A1  
; GENERAL INFORMATION:  
; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER  
; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF  
; TITLE OF INVENTION: RHEUMATOID ARTHRITIS  
; FILE REFERENCE: 10872-514696  
; CURRENT APPLICATION NUMBER: US/10/287,436A  
; PRIORITY FILING DATE: 2002-10-31  
; PRIOR APPLICATION NUMBER: US 60/336,220  
; PRIORITY FILING DATE: 2001-10-31  
; NUMBER OF SEQ ID NOS: 1446  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 335  
; LENGTH: 3389  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-287-436A-335

Query Match 94.9%; Score 1709; DB 9; Length 3389;  
Best Local Similarity 99.0%; Pred. No. 0;  
Matches 1783; Conservative 0; Mismatches 10; Indels 8; Gaps 6;

Qy 1 CCGCGCGCTGTGCTGCTGCTGCTGCCCGGACCCCGGCGGACGAGCACGAC 60  
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Db 114 ACACGTATCAAGATAAAGAGGAAGTTGTTTATGATGAATACTGTTGGGCCCTTACCATA 173  
Qy 121 ATCTGCAAGAACATATAAGTACTTTTTCACATCTCTGTTGGGGTCAAAAAAGTA 180  
Db 174 ATCTGCAAGAACATATAAGTACTTTTTCACATCTCTGTTGGGGTCAAAAAAGTA 233  
Qy 181 TCAGTCAATACCATCAAACTCTGGGAGAACACTTCAAGGGGTGAAATGGAAATTTAGTG 240  
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Qy 241 GTCTGGATATTAATTTAAAGATGATGTGAGCCAGCCACTTACTGTGAAATTTGATTTAG 300  
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Qy 1200 GGTACAATCTTGGCCGAAATCTGTAGGTGAGCCCAACTTTCTTGTGTCGTCATGCT 1259
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Db 1787 AAGAAAACCTGGAACCTTTGGATCAATTTCTTTTTCATAGGGGTGGAACCTTGCAAGCAAA 1846
Qy 1800 A 1800
Db 1847 A 1847
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## RESULT 13

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US-10-062-674-1697
; Sequence 1697, Application US/10062674
; Publication No. US2004000559A1
; GENERAL INFORMATION:
; APPLICANT: Loring, Jeanne F.; Kaser, Matthew R.
; TITLE OF INVENTION: MARKERS OF NEURONAL DIFFERENTIATION AND MORPHOGENESIS
; FILE REFERENCE: PA-0026-1 CIP
; CURRENT APPLICATION NUMBER: US/10/062,674
; CURRENT FILING DATE: 2002-01-30
; PRIOR APPLICATION NUMBER: US 09/625,102
; PRIOR FILING DATE: 2000-07-24
; NUMBER OF SEQ ID NOS: 2217
; SOFTWARE: PERL Program
; SEQ ID NO 1697
; LENGTH: 6197
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US2004000559A1 233927.4
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; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) ... (6197)
; OTHER INFORMATION: a, t, c, g, or other
US-10-062-674-1697
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Query Match 56.2%; Score 1011.6; DB 6; Length 6197;

Best Local Similarity 84.6%; Pred. No. 8.7e-238;  
Matches 1605; Conservative 0; Mismatches 195; Indels 97; Gaps 38;

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Qy 1 CCGCGGCGTGTGGCTGCTG-CTGCTGCTGCTGCCCCGGAC-CGGGCGGACGACGACGA 58
Db 4 CCGCGGCGTGTGGCTGCTGTTTGTCTGCTGCTGCCCCGGACTCCGGCGGACGACGACGA 63
Qy 59 ACACAGTATCAAGATAAAGAGGAAGTTGTCTTATGATGAATACT--GTTGGGCCCTAC 116
Db 64 ACACAGTGTCAAGATAAAGAGGAAGTTGTCTTATGATGAATACTTTTGGGCCCTTAAC 123
Qy 117 CATATCGTCAAGAAACATATAAGTACTTTTTCATCTTCCATCTCTGTGTGGGGTC---AAAA 173
Db 124 AAAATTCGTGAGAAAACTTTTAAAGTACTTTTTCATCTTCCATTTCTGTGTGGGGTCAAAAAA 183
Qy 174 AAAAGTATCAGTCATTACCATGAAACTCTGGAGAGCACTTCAAGGGGTTGAATTCGAA 233
Db 184 AAAAGTATCAGTCATTACCATGAAACTCTGGAGAGCACTTCAAGGGGTTGAATTCGAA 243
Qy 234 TTTAGTGGTCTGGATATTAAATTTAAAGATG-ATGTGATGCCAGCCACTT-ACTGTGAAA 291
Db 244 TTTAGTGGTCTGGATATTAAATTTAAAGCTGCATGTGATGCCAGCCACTTCACTGTGAAC 303
Qy 292 TTG-ATTAGATAAG-AAAAGAGAGATGCAATTGTATATGCCATAAAAAATCAATTAATG 349
Db 304 TCGCATTCAGATAAGCAAAAGAGAGATGCAATTTGTATATGCCATAACAAATCAATTAATG 363
Qy 350 GTACCAAG-ATGTACATAG--ATGATTTTACCAATATGGGTATTTGTTGCTGAGGCTGATGA 406
Db 364 GTACCAAGATGTACATAGCAATTTTACCNNATATGGGGTATTTGTTGCTGAGGCTGATGA 423
Qy 407 AAATG-GAGAAGATTACTATC--TTTGGACCTATAAAAACTTTGAAAT--AGGTTTTTAAT 461
Db 424 AAATGCGAGAAGATTACTATCTGTGAGCCGTATAAAAACTTTGAAATTAAGTTTAACT 483
Qy 462 GGAATTCGAA-----TTGTTGATGTTAATCTAATCTAGTAGAAGGAAGTGAACCTGG 513
Db 484 GGAATTCGGAAGTTGTTGATGTTATATCTAACTACGTGAAGAGAAAGAGTGAACATGG 543
Qy 514 TTCAAATACTAAATCCAGATGTCATATTCAGTAAATCGAAAAAGTCAAG--TCGTGA 570
Db 544 TTCAAATACTAAATCCAGATGTCATATTCAGTAAAGTGGAAAAAAGTCAGATTCGATGGA 603
Qy 571 AATTTGAAGATCGATTTTGACAAATATCTTGTATCCGTCCTC-TTTTTCACATCGGATTCAT 629
Db 604 AATTTGAAGATCGATTTTGACAAATATCTTGTATCCGTCCTCTTTTCAACATCGGATTCAT 663
Qy 630 TGGTTTTCAA-----TTTTCAACTCCTTCATGAT-GGTGATCTTCTTGGT-GGGCTTAGT 682
Db 664 TGGTTTTCACATGTTGTCAACTCCGTTTCATGATGGGTGATCTTCTTGGTGGGGCTTAGT 723
Qy 683 TTCAAATGATTTTAAATGAGAAACA--TTAAGAAAAAGATTATGTCGGTACAGTAAGAGGA 739
Db 724 TTCATAGATTTTAAATGAGAAACATTAAGAAAAAGATTATGCTCGGTACAGTAAGAGGA 783
Qy 740 AGAAATGGATGATATGGATAGACACCTAGGAGATGAATATG---GATGGAACACAGGTGCA 796
Db 784 AGAAATGGATGATATGGATAGACACCTAGGAGATGAATATGATGTGGAAGAAAAACAGGTGCA 843
Qy 797 T--GGAGATGATTTAGACCAT--CAAGTCACCCACTGATATTTTCCCTCTGATGGTCTC 853
Db 844 TTGGAAGATGATTTTAGACCATCAAGTCAACCCACTGATATTTTCCCTCTCTGATTTGGTTTC 903
Qy 854 TGGATGTACGATATTTTGTGCTGTCTCTCATC- GTTATTTATTTGTTCAATGATAGAAGATT 912
Db 904 TGGATGTACGATATTTTGTGCTGTCTCTCATCGGTAAATAATGGTGGCAATGATAGAAGATT 963
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QY 913 TATATACTGAGAGGATCAATGCTCAGTACAGCCATATTTGCTATGC-TGCTACGCT 971  
Db 964 AATATACTGAGAGGATCAATGCTCAGTACAGCCATATTTGCTAAGCTGCTACGCT 1023  
QY 972 -CCAGTAAATGTTATTTGGAGGAAGTCTGTATGCTAGACAGGAGGAGATGAT 1030  
Db 1024 CCAGTAAATGTTATTTGGAGGAAGTCTGTATGCTAGACAGGAGGAGATGAT 1083  
QY 1031 -----AAGCAGATGTTATTTGGGCAATCC-----TTATCCAGCTATGCTGT 1076  
Db 1084 ATAAGCCAGATGTTATTTGGGCAATCCCTTTAAATTTCCCAAGCTAATTTGGGTT 1143  
QY 1077 GGCACCTGCTTC-----TTTCAATTTTATAGCCATTTATTTACCATGCTTCAA 1125  
Db 1144 GTTGTGGCCAACTTGCCCTTTCTTTCATCAATTTTATAGCCATTTATTTACCATGCTTCAA 1203  
QY 1126 GAGCAATCTCTTTTGAAC-AATGTTGGCCGTTTGTGATCTG-TTTTTTTTATTTCT 1183  
Db 1204 GAGCAATCTCTTTTGAACAAATGTTGGCCGTTTGTGATCTG-TTTTTTTTATTTCT 1263  
QY 1184 TCCTCTAAATCTGTTGTGATCAATCTTGGCCGAATCTGTCAGTTCAGCCCACTTTCC 1243  
Db 1264 TCCTCTAAATCTGTTGTGATCAATCTTGGCCGAATCTGTCAGTTCAGCCCACTTTCC 1323  
QY 1244 TTGCTGTCAATGCTGTGCTTC-GTCTATATACCGAGA-----AAAAATGTTTCATGGAG 1298  
Db 1324 TTGCTGTCAATGCTGTGCTTCGTCTATATACCGAGAACACAGATGTTACATGGAG 1383  
QY 1299 CTGCGGTTATGTTTGGCTGGTGAATTTTACCTTTTGGTTCAATCTTTATTTGAATG 1358  
Db 1384 CTGCGGTTATGTTTGGCTGGTGAATTTTACCTTTTGGTTCAATCTTTATTTGAATG 1443  
QY 1359 TATTTCACTTCACTCTTCTGGCATATAGATCTATTATGCTATGGCTTCATGATG 1418  
Db 1444 TATTTCACTTCACTCTTCTGGCATATAGATCTATTATGCTATGGCTTCATGATG 1503  
QY 1419 CTGCTGTGTTATCTGTGCAATGCTGCTGTGCTATGCTATGTTGTCACATATTTT 1478  
Db 1504 CTGCTGTGTTATCTGTGCAATGCTGCTGTGCTATGCTATGTTGTCACATATTTT 1563  
QY 1479 CTACTAAATGCAAGATATACCGTGGCAATGGAAGTTTCTCTGCTGTCATCACT 1538  
Db 1564 CTACTAAATGCAAGATATACCGTGGCAATGGAAGTTTCTCTGCTGTCATCACT 1623  
QY 1539 GCAATCTATGTTTACATGTTATCTCTTTACTACTATTTT-----CAAAACAAGAT 1591  
Db 1624 GCAATCTATGTTTACATGTTATCTCTTTACTACTATGTTTTCGAAAAACAAGATGAT 1683  
QY 1592 GTATGGCTTATTTCAAAACATCATTTTACTTTGGATATATGGC--GGTATTTAGCACAGC 1649  
Db 1684 GTGCTTATTTGCAACATCTATTTTACATTTGGATATATGGGCTGATATTTAGCACAGTC 1743  
QY 1650 TTGGGGATAATGTTG-----GAGCGATTGGTTACATGGGAACAAGTCTTTGTCGAAA 1705  
Db 1744 CTGGGGATAATGTTGTTGGAGGATATGTTTACATGGGGAACAAGTCTTTGTCGAAA 1803  
QY 1706 AATCTATATGTAATGTAATTTGACTAGACCCCAAGAAACCTTGGAACTTTT-GGATCAA 1764  
Db 1804 AATCTATATGTAATGTAATTTGACTAGACCCCAAGAAACCTTGGAACTTTTGGGATCAA 1863  
QY 1765 TTTCTTTTTCATAGGGGT-GGAACCTTGCACAGCAAAA 1800  
Db 1864 TTTCTTTTTCATAGGGGTGGGAACTTGCACAGCAAAA 1900

RESULT 14

US-10-264-237-1414  
; Sequence 1414, Application US/10264237  
; Publication No. US20040009491A1  
; GENERAL INFORMATION:  
; APPLICANT: Birse et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

FILE REFERENCE: PA131PI  
CURRENT APPLICATION NUMBER: US/10/264,237  
CURRENT FILING DATE: 2002-10-04  
PRIOR APPLICATION NUMBER: PCT/US01/16450  
PRIOR FILING DATE: 2001-05-18  
PRIOR APPLICATION NUMBER: US 60/205,515  
PRIOR FILING DATE: 2000-05-19  
NUMBER OF SEQ ID NOS: 2876  
SOFTWARE: PatentIn Ver. 3.1  
SEQ ID NO 1414  
LENGTH: 1070  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (34)..(34)  
OTHER INFORMATION: n equals a,t,g, or c  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (40)..(40)  
OTHER INFORMATION: n equals a,t,g, or c  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (525)..(525)  
OTHER INFORMATION: n equals a,t,g, or c  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (529)..(529)  
OTHER INFORMATION: n equals a,t,g, or c  
FEATURE:  
NAME/KEY: misc feature  
LOCATION: (557)..(557)  
OTHER INFORMATION: n equals a,t,g, or c  
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NAME/KEY: misc feature  
LOCATION: (837)..(837)  
OTHER INFORMATION: n equals a,t,g, or c  
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NAME/KEY: misc feature  
LOCATION: (912)..(912)  
OTHER INFORMATION: n equals a,t,g, or c  
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LOCATION: (956)..(956)  
OTHER INFORMATION: n equals a,t,g, or c  
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LOCATION: (965)..(966)  
OTHER INFORMATION: n equals a,t,g, or c  
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NAME/KEY: misc feature  
LOCATION: (1025)..(1025)  
OTHER INFORMATION: n equals a,t,g, or c  
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NAME/KEY: misc feature  
LOCATION: (1047)..(1047)  
OTHER INFORMATION: n equals a,t,g, or c  
US-10-264-237-1414

Query Match 39.8%; Score 716.4; DB 6; Length 1070;  
Best Local Similarity 92.6%; Pred. No. 1.6e-165;  
Matches 803; Conservative 0; Mismatches 11; Indels 53; Gaps 3;  
QY 987 TTTGGAGGAAGTCTGTATGCTAGACAGGAGGAGATGATTAAGCAGATGTTTATT 1046  
Db 20 TTTGGAGGCTCTCTNTATGANAGACAGGAGGAGGACATGATTAAGCAGATGTTTATT 79  
QY 1047 GGGGCAATTCCTTTATCCCAAGCTATGCTGTGTCAGCTGCTTCTTCATCAATTTTCATAGCC 1106  
Db 80 GGGGCAATTCCTTTATCCCAAGCTATGCTGTGTCAGCTGCTTCTTCATCAATTTTCATAGCC 139  
QY 1107 ATTTATTACCATGCTTCAAGGCCATTCCTTTTGGAAACAATGCTGGCCGTTTGTTCATC 1166

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Db 140 ATTATTACCATGCTTCAAGACCAATTCCTTTTGGAAACAATGGTGGCGGTTTGTGCAATC 199
Qy 1167 TGTGTTTTTGTATTCTTCCCTAAATCTGTGTGACAAATCTTGGCCGAAATCTGTCA 1226
Db 200 TGTGTTTTTGTATTCTTCCCTAAATCTGTGTGACAAATCTTGGCCGAAATCTGTCA 259
Qy 1227 GGTGAGCCCACTTTCCTTGTGCGTGAATGCTGAATGCTGCTGCTGCTATACCGGAGAAAAA 1286
Db 260 GGTGAGCCCACTTTCCTTGTGCGTGAATGCTGAATGCTGCTGCTGCTATACCGGAGAAAAA 319
Qy 1287 TGGTTCATGAGCGCTGCGGTTATTCTTGGCCCTGGGTGAATTTTACCTTTGGTTCATC 1346
Db 320 TGGTTCATGAGCGCTGCGGTTATTCTTGGCCCTGGGTGAATTTTACCTTTGGTTCATC 379
Qy 1347 TTTATTGAAATGTAATTTTCATCTTCACTGCTTCTTGGGCATATAAGATCTATTATGCTAT 1406
Db 380 TTTATTGAAATGTAATTTTCATCTTCACTGCTTCTTGGGCATATAAGATCTATTATGCTAT 439
Qy 1407 GGCCTCATGATGCTGGTCTGGTTATCTGTGCAATGTGACCTGTGCTGTGACCTATTGTG 1466
Db 440 GGCCTCATGATGCTGGTCTGGTTATCTGTGCAATGTGACCTGTGCTGTGACCTATTGTG 499
Qy 1467 TGCACATATTTTCTACTAAATGCGAGAA--GATTACCGGT----- 1503
Db 500 TGCACATATTTTCTACTAAATGCGAGNAAGNATTACCGGTGGCCATTTCATTCAAAAGNAG 559
Qy 1504 -----GCAATGGAACAAGTTTCTCTCTGCTGCATC 1534
Db 560 ATTTATCTTCTTCCCTCCCGCCACCGAGCAATGGACAAGTTTCTCTCTGCTGCATC 619
Qy 1535 AACTGCAATCTATGTTACATGATATCTTCTTACTACTATTTTTCAAAACAAGATGTA 1594
Db 620 AACTGCAATCTATGTTACATGATATCTTCTTACTACTATTTTTCAAAACAAGATGTA 679
Qy 1595 TGGCTTATTTCAAACATCAITTTACTTTGGATATATGGCGGTATTTAGCACAGCCTT-GG 1653
Db 680 TGGCTTATTTCAAACATCAITTTACTTTGGATATATGGCGGTATTTAGTACAGCCTTGGG 739
Qy 1654 GGATAATGTGGAGCGAATGGTTACATGGAACAAGTGCCTTTGTCCGAAAAATCTATA 1713
Db 740 GGATAATGTGGAGCGAATGGTTACATGGAACAAGTGCCTTTGTCCGAAAAATCTATA 799
Qy 1714 CTAATGTGAAATTTGACTTAGAGACCCAGAAAACTTGGATCAATTTCTTTT 1773
Db 800 CTAATGTGAAATTTGACTTAGAGACCCAGAAAACTTGNAACTTTGGATCAATTTCTTTT 859
Qy 1774 CATAGGGGTGAACTTGCACAGCAAAA 1800
Db 860 CATAGGGGTGAACTTGCACAGCAAAA 886
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## RESULT 15

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US-11-097-143-22277
; Sequence 22277, Application US/11097143
; Publication No. US200502085581
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig
; APPLICANT: et al.
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE
; FILE REFERENCE: CLO00728
; CURRENT APPLICATION NUMBER: US/11/097,143
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: 60/157,832
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: 60/160,191
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/161,932
; PRIOR FILING DATE: 1999-10-28
; PRIOR APPLICATION NUMBER: 60/164,769
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/173,383
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; PRIOR FILING DATE: 1999-12-28
; PRIOR APPLICATION NUMBER: 60/175,693
; PRIOR FILING DATE: 2000-01-12
; PRIOR APPLICATION NUMBER: 60/184,831
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/191,637
; PRIOR FILING DATE: 2000-03-23
; NUMBER OF SEQ ID NOS: 43008
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22277
; LENGTH: 1863
; TYPE: DNA
; ORGANISM: DROSOPHILA
US-11-097-143-22277
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Best Local Similarity 62.7%; Pred. No. 4.9e-148;
Matches 1067; Conservative 0; Mismatches 560; Indels 75; Gaps 1;

Qy 31 TGCCCCGGACCCGGGCGGACGACGACCAACACACGTATCAAGATAAAGAGGAAAGTGTCT 90
Db 236 TGTGCTCTCCAGCGAGATGAGCACAATCACAGTACAAATGACCGGAGGAGGTGTAC 295
Qy 91 TATGGATGAATACTGTTGGGCCCTTACCATAATCGTCAAGAAACATATAAGTACTTTTTCAC 150
Db 296 TGTGGATGAACACGGTGGGCCCGTACCACAATTCGGCAGGAGACGTACCGGTACTTCTCTC 355
Qy 151 TTCCATTCTGTGTGGGTCAAAAAAAGATATCAGTCAATTACCATGAAACTCTGGAGAG 210
Db 356 TCCCTTTTGCAGTGGCCAGAGTCTCTCGATATCGCACTACCGACGACGCTGAGCGAG 415
Qy 211 CACTTCAAGGGTTGAAATTTAGTGGTCTGGATATTTAAATTTTAAAGATCATGTGA 270
Db 416 CGCTGCAAGGAGTGCAGCTAGAGTTTCACTGCTACGAGATGGAGTTTCAAGAGCGAGCC 475
Qy 271 TGGCAGCCACTTACTGTGAAATTTGATTTAGATAAAGAAAGAGAGATGTCATTTGTATG 330
Db 476 CCAATCGGTCTATCGATGGTCACTTGCAGGAGGAGCGCCAAAGGCATTCACCTATG 535
Qy 331 CCATAAAAAATCAATTACTGATCCAGATGTACATAGATGATTTTACCAATATGGGGTATTG 390
Db 536 CCGTGAAGAACGAGTACTGTGTACCGAGATGTACATCGATGCACTGCCCTTTTGGGGAAAAG 595
Qy 391 TTGCTGAGGCTGATGAAAAATGGAGAGATTAATCTATCTTTTGGACCTATAAAAAAATTGAAA 450
Db 596 TCGGTGAGCGCGACGAGCGCGATGGCAAGTACTATATCTTCAACGCAACAAGATTCGACA 655
Qy 451 TAGGTTTTTATGGAATCGAATTTGTCATCTTAATCTAATCTAGTGAAGGAAAGTGAAC 510
Db 656 TCGGCTACAATGGCCAGCAAAATCGTGGATATCACCCCTGACCGAGGGCGCGAGGAAC 715
Qy 511 TGGTTCCAAAATACTAAAAATCCAGATGTCAATATTCAGTAAAAATGAAAAAGTCAGATGTA 570
Db 716 TCAAGCGGGATCCACATCAACTTCTCTACGAGGTCACTGGAAGCCCGACGAGGTGG 775
Qy 571 AATTGGAAGATCGATTGCAAAATATCTTGATCCGTCCTTTTTCACATCGGATTCATT 630
Db 776 AGTTCAAGAAATCGATTGCAAAAGTACCTGGATCCCAACTTCTTCCAGCACAGGATCCACT 835
Qy 631 GGTGTTTCAATTTTCAACTCCTTCATGATGTGATCTTCTTGGTGGGCTTAGTTTCAATGA 690
Db 836 GGTTCAGCATCTTCAACAGCTTTCATGATGTGATCTTCTTGGTGGGCTTAGTTTCAATGA 895
Qy 691 TTTTAAATGAGAACATTAAGAAAAAGATTTATGCTCGGTACAGTAAAGAGAGAAAAATGATG 750
Db 896 TTCTGATGCGAACTCTGCGCAAGGATTTATGCTCGGTACAGTAAAGACGAGGAATCGACG 955
Qy 751 ATATGGATAGAGACCTTAGGAGATGAATATCGATGGAACACAGGTGCGATGGAGATGTTTA 810
Db 956 ACATGGAGCGAGATCTTTGGTGAATACGCGCTGGAAGCAGGTGTCATGGCGATGCTTCC 1015
Qy 811 GACCATCAAGTCAACCCACTCATATTTTCCCTCTCTGATTGTTCTGGAATGTCAGATATTG 870
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Db 1016 GTTCTCCGCCCAACACACTGCTCTTCTCGCGCTGTGGCGCTGGATACCAACTGATTT 1075
Qy 871 CTGTGCTCTCTCATCGTATTATTGTCGAATGATAGAGATTTATATCTGAGAGGGAT 930
Db 1076 CGGTTGTTATCTGTGTGATCATGTTGCGCATAGTTGGTGAATTGTACACGGAACCGGCT 1135
Qy 931 CAATGCTCAGTACAGCCATTTTGTCTATGTCTACGTTCTCCAGTGAATGGTTATTTTG 990
Db 1136 CCATGCTGCCACGGCTATATTGTTGATGCCGCCACCTCACCANTCAATGGATACTTTG 1195
Qy 991 GAGGAAGTCTGTATGCTAGACAAGAGAGAGAGATGGATAAGCAGATGTTTATTTGGG 1050
Db 1196 GAGGATCGCTCTATGCCGCCCTGGGTTGGACGATGTGGATCCGACAGATGCTGGTCCG 1255
Qy 1051 CATTCCTTATCCAGCTATGGTGTGTGGCAGTGCCTTCTTCATCAATTTTATAGCCATTT 1110
Db 1256 CTTTTCAGTTCCAGTGGCTGTGTGGGCACCGCTTTCCTGATCAACTTCATTGCCATTTG 1315
Qy 1111 ATTACCATGCTTCAAGAGCCATTCTCTTTTGGAAACAATGGTGGCCGTTTGTTCATCTGTT 1170
Db 1316 GATATCAGCGCTCGAGAGCCATTCCCTTCGGTACCATGGTGGCGGTCACTTGCATCTGCC 1375
Qy 1171 TTTTGTGTTATCTTCTCTTAATCTTGTGTTGTTGTAACAATCTTGGCCGAAATCTGTCAAGTC 1230
Db 1376 TGTGTTGTCATCTGCCCTTGACTCTGGTGGTACTGT----- 1412
Qy 1231 AGCCCAACTTTCCTTGTGTGTCATGCTGTGCTCGTCTCTATACGGGAGAAATAATGGT 1290
Db 1413 -----CAAGTGGT 1420
Qy 1291 TCATGGAGCTCGGTTATTTGTTGCTGGTGGAAATTTACCTTTTGGTTCAATCTTTTA 1350
Db 1421 ACATGGAGCCACTGATTTATGTCCTTCTTGGCGGTGCTTGGCCCTTGGATCCATCTTCA 1480
Qy 1351 TTGAAATGTAATTCATCTTACGCTCTTCTTGGGCATATAAGATCTATTTATGTCATGGCT 1410
Db 1481 TTGAGATGTACTTCTATCTTCACTCCTTCTTGGGCGGTACAAGATCTTACTACGCTACGGCT 1540
Qy 1411 TCATCATGCTGGTGTGGTTATCTCTGTGTCATGTCATGTCATGTCATGTCATGTCATGTCATG 1470
Db 1541 TCATGTTGCTGTTTTCAGCATCCCTGACTGTGGTCACCGTGTGCGTCACCATCGTGTGCA 1600
Qy 1471 CATATTTTCTACTAAATGCAGAAATTAACCGTGGCAATGGACAAAGTTTCTCTCTGCTG 1530
Db 1601 CCTACTTCTGCTAATGCCGAAGATTACCGATGGCAGTGGACGAGTTTTCATGGCTGCGG 1660
Qy 1531 CATCAACTGCAATCTATGTTTACATGTAATCTCTTTTACTATCTATTTTTCAAAAACAAAGA 1590
Db 1661 GCTCCACGTCGATTTTACGCTGTACGCTATTTCTCTTATTTACTTCTTTTAAAAACCAAAA 1720
Qy 1591 TGTATGGCTTATTTTCAACATCATTTTACTTTGGATATATGGCGGTATTTAGCACAGCT 1650
Db 1721 TGTTCGGTCTGTTTCAAAACGGCTTCTACTTTGGCTACATGGCACTCTTCAGCGCGGCT 1780
Qy 1651 TGGGATATATGTCGAGCGATTGGTTATACATGGGAAACAAAGTGCCTTTGTTCGAAAAAATCT 1710
Db 1781 TGGGATTTATCTGCGGACCGCTCGCTATGTGGGACCGAATCTCTTCTGTGGCAAAATCT 1840
Qy 1711 ATACTAATGTGAAATGACTA 1732
Db 1841 ATTCCAATGTGAAATAGACTA 1862

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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 13, 2005, 14:42:16 ; Search time 203.85 Seconds  
(without alignments)  
3301.147 Million cell updates/sec

Title: US-09-319-724B-13  
Perfect score: 1800  
Sequence: 1 ccgcgcgcctgtgctgtg.....gtggaactgcacagcaaaa 1800

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 3392430 seqs, 186927314 residues  
Total number of hits satisfying chosen parameters: 6784860

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications NA New.\*  
1: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
2: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
3: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/ECT\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/US10\_NEW\_PUB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq2.\*  
9: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq3.\*  
10: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	59.6	3.3	427	6 US-10-821-234-288	Sequence 288, App
2	44.6	2.5	579	6 US-10-750-185-1291	Sequence 1291, App
3	42.2	2.3	1596	6 US-10-750-185-29813	Sequence 29813, A
4	42	2.3	1431	6 US-10-750-185-33765	Sequence 33765, A
5	41.6	2.3	1512	7 US-11-139-195-3	Sequence 3, Appli
6	41.6	2.3	1971	7 US-11-139-195-1	Sequence 1, Appli
7	41.2	2.3	1695	7 US-11-074-176-97	Sequence 97, Appl
8	40.8	2.3	976	6 US-10-750-185-3571	Sequence 3571, A
9	38.8	2.2	3555	6 US-10-793-626-4208	Sequence 4208, App
10	38.6	2.1	1717	6 US-10-750-185-33666	Sequence 33666, A
11	38.6	2.1	6189	6 US-10-909-125-825	Sequence 825, App
12	38.6	2.1	169495	7 US-11-121-086-61	Sequence 61, Appl
13	38.4	2.1	4668	6 US-10-750-185-47661	Sequence 47661, A
14	37.6	2.1	1071	6 US-10-793-626-2053	Sequence 2053, App
15	37.6	2.1	2702	6 US-10-793-626-4433	Sequence 4433, App
16	37.6	2.1	3784	6 US-10-793-626-3931	Sequence 3931, App
17	37.6	2.1	3841	6 US-10-793-626-3497	Sequence 3497, App
18	37.6	2.1	3898	6 US-10-793-626-3962	Sequence 3962, App
19	37.6	2.1	1082144	7 US-11-117-187-211	Sequence 211, App
20	37.4	2.1	2106	6 US-10-793-626-709	Sequence 709, App
21	37.4	2.1	3177	6 US-10-793-626-3339	Sequence 3339, App
22	37.4	2.1	3828	6 US-10-793-626-3921	Sequence 3921, App
23	36.8	2.0	588	6 US-10-689-742-41	Sequence 41, Appl

ALIGNMENTS

RESULT 1  
US-10-821-234-288  
; Sequence 288, Application US/10821234  
; Publication No. US20050255114A1  
; GENERAL INFORMATION:  
; APPLICANT: Labat, Ivan  
; APPLICANT: Stache-Crain, Birgit  
; APPLICANT: Andarmani, Susan  
; APPLICANT: Tang, Y. Tom  
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Presclampsia  
; FILE REFERENCE: 821A  
; CURRENT APPLICATION NUMBER: US/10/821,234  
; CURRENT FILING DATE: 2004-04-07  
; PRIOR APPLICATION NUMBER: US 60/462,047  
; PRIOR FILING DATE: 2003-04-07  
; NUMBER OF SEQ ID NOS: 1704  
; SOFTWARE: pt\_seq\_genes Version 1.0  
; SEQ ID NO 288  
; LENGTH: 427  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-821-234-288

Query Match	3.3%	Score 59.6;	DB 6;	Length 427;
Best Local Similarity	51.3%	Pred. No. 2e-05;	Mismatches 154;	Indels 1;
Matches 163;	Conservative 0;			Gaps 1;
QY	1420	TGGTCTGGTATCTCTGTGCAATGTGACTGTCTGTGTGACTATTTGTGTGACATATTTTC	1479	
Db	33	TGTGCTTATCATTTTGGTTATTACCTGTCTGTGAAGCAATATCTCTTTCTATTTCC	92	
QY	1480	TACTAAATGCAAGATTACCGTGGCAATGGAACAAGTTTCTCTGCTGCATCACTG	1539	
Db	93	ACCTATGTGCAGAGGATTATCATTTGGCAATGCGTTCGTTCCGTACGAGTGGCTTTACTG	152	
QY	1540	CAATCTATGTTTACATGTATCTCTTTTACTACTATTTTTCACAAACAAG-ATGATATGCG	1598	
Db	153	CAGTTTATTTCTTAATCTATGAGTACACTCTCTTTTCAAACTGGGAATCAGGGA	212	
QY	1599	TTATTTCAACATCATTTTACTTTTGGATATATGCGGATTTTATGACACAGCTTGGGGATA	1658	
Db	213	ACAGCAACACAATTTCTGTACTTTTGGTTATACCATGACAATGGTTTGGATCTTCTTCTT	272	
QY	1659	ATGTGTGAGGAGTTGGTTTACATGAGGAACAAGTGGCTTTTCCGAAAAATCTATATAAT	1718	
Db	273	TTTACAGGAACAATTTGCTTCTTCTTTCATGCTTTTGGCTTGTGTACCAAAATATACAGTGTG	332	

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QY 1719 GTGAAATTTGACTAGAGA 1736
Db 333 GTGAAGCTTGACTGAAGA 350

RESULT 2
US-10-750-185-1291
; Sequence 1291, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1291
; LENGTH: 579
; TYPE: DNA
; ORGANISM: Bovine MBMT17749
US-10-750-185-1291

Query Match 2.5%; Score 44.6; DB 6; Length 579;
Best Local Similarity 54.6%; Pred. No. 0.11;
Matches 89; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 1242 CCTGTGCTGTCATGCTGCTCCTATACCGGAGAAATGGTTCATGGAGCCT 1301
Db 358 CCAAGTTGGAACCAATCAGATCCACGTCAGATTCCTGAACAGTCTTTCTACACAAAGCCA 417

QY 1302 GCGGTTATTTGTCCTGGGTGGAATTTTACCTTTTGGTTCAATCTTTTATTTGAATGAT 1361
Db 418 TTACCTGGTATATCATGGAGGAGATTTGCGCTTTGGTGTCATCTTTATACAGCTTTTC 477

QY 1362 TTCACTTCAGCTCTTCTTCGGGCATATAAGATCTATTATGTCT 1404
Db 478 TTCATCCTGAATAGTATTTGGTAAAGCTGAGCACTAAGTCCTCT 520

RESULT 3
US-10-750-185-29813
; Sequence 29813, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29813
; LENGTH: 1596
; TYPE: DNA
; ORGANISM: Bovine 19866881180936

US-10-750-185-29813
Query Match 2.3%; Score 42.2; DB 6; Length 1596;
Best Local Similarity 48.5%; Pred. No. 0.65;
Matches 145; Conservative 0; Mismatches 153; Indels 1; Gaps 1;

QY 296 TTTAGATAAAGAAAGAGAGATGCATTTGTATATGCCATAAAAAATCATTACTGGTACCA 355
Db 26 TATATATGTATATTATATAATATCCATTTATATATATATAATATCCATATATATAATA 85

QY 356 GATGTACATAGATGATTTACCAATATCGGGTATTTGGTGAGGCTGATGAAATGGAGA 415
Db 86 TATTTATATATAAATATACCTATATATATTTATGGCTTATTTTCATGTTGATGATG 145

QY 416 AGATTACTATCTTTGGACCTATAAAAAATTTGAAATAGGTTTTTAATGAAA-TCGAAATTG 474
Db 146 GCAGAAACCAACACATATTGTAAGCAATTAATCTCCAAATTAATAAATAATTTTTTTA 205

QY 475 TTGATGTTAATCTAACTAGTAGGAAGGAAAGGTGAAACTGGTTCCAAATCTAAAAATCCAGA 534
Db 206 ATGTGAATACTCAAAAAACAAAAAGAAAGAAAAATCCCAAAATTTGATTATCTCTAA 265

QY 535 TGTCAATATTCAGTAAAAATGAAAAAGTCAGATGTGAAATTTGAAGATCGATTTGACAAA 593
Db 266 AAGCAGAAATTTTAAACAAAAAAGATATGTTTGTCTTCTCGAATACAGTTTTTAAA 324

RESULT 4
US-10-750-185-33765/c
; Sequence 33765, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33765
; LENGTH: 1431
; TYPE: DNA
; ORGANISM: Bovine 19866881348699
US-10-750-185-33765

Query Match 2.3%; Score 42; DB 6; Length 1431;
Best Local Similarity 51.4%; Pred. No. 0.69;
Matches 148; Conservative 0; Mismatches 135; Indels 5; Gaps 2;

QY 345 TACTGGTACCAGATGTACATAGATGATTTTACCATAATGGGGTATTTGGTGAGG--CTG 402
Db 984 TATTTAAATAATATTCGAATATTTGATTTAGAAAATAGGGTATGATTTGTTGTAATTT 925

QY 403 ATGAAAATGGAGAAGATTTACTATCTTTGGACCTATATAAAAACTTGAATAAGTTTAAATG 462
Db 924 TTAACATTTGACCATTTTCACTATCTTTAGGAGTCCAAATTAATTTGGAATTAATTTTAAAG 865

QY 463 GAAATCGAATTTGTTGATGTTAATCTAACTAGTAGTGAAGAAAGGTGAAACTGGTCCCAATA 522
Db 864 TTAATTTGTAATTAATTTTAAACAAACTGGTTTATTCAGTTGTTGACTGAAGGAAAAACAA 805

QY 523 CTAAAAATCCAGATGTCTATATTTCAAGTAAAAATGGAAGAAAGTCAGATGTGAAATTTTGAAGATC 582
Db 804 TTCAGATAGGGTTCCACCATTTTCAATACAT--ATAACTCTCTCATGAAAAAATATATTTA 748
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OM protein - protein search, using sw model

Run on: December 7, 2005, 12:30:31 ; Search time 37.4542 Seconds  
(without alignments)  
1271.452 Million cell updates/sec

Title: US-09-319-724B-14  
Perfect score: 3089  
Sequence: 1 AALWLLLLLPRTRADEHEH.....ICYMGTSFVRKIYTNVKID 576

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents\_AA:\*
- 1: /cgn2\_6/ptodata/1/iaa/5\_COMB.pep:\*
  - 2: /cgn2\_6/ptodata/1/iaa/6\_COMB.pep:\*
  - 3: /cgn2\_6/ptodata/1/iaa/H\_COMB.pep:\*
  - 4: /cgn2\_6/ptodata/1/iaa/PCRTUS\_COMB.pep:\*
  - 5: /cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\*
  - 6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3089	100.0	579	2	US-09-786-681A-4
2	3089	100.0	582	2	US-09-786-681A-2
3	1107	35.8	257	2	US-09-270-767-32308
4	950.5	30.8	625	2	US-08-959-004-10
5	843.5	27.3	663	2	US-08-959-004-5
6	843.5	27.3	676	2	US-09-949-016-9494
7	813	26.3	573	2	US-10-104-047-3669
8	694	22.5	667	2	US-08-959-004-11
9	628	20.3	133	2	US-09-270-767-44213
10	628	20.3	133	2	US-09-270-767-59636
11	613	19.8	111	2	US-09-513-999C-7579
12	580	18.8	218	2	US-09-270-767-46281
13	467	15.1	241	2	US-09-248-796A-20311
14	364	11.8	87	2	US-09-513-999C-7785
15	127	4.1	574	2	US-09-107-433-3877
16	127	4.1	605	2	US-09-583-110-4773
17	120.5	3.9	513	2	US-09-543-681A-8279
18	118.5	3.8	496	2	US-09-134-001C-3703
19	117.5	3.8	592	2	US-09-949-016-6953
20	117.5	3.8	609	2	US-09-949-016-8961
21	117.5	3.8	609	2	US-09-949-016-8962
22	115	3.7	502	2	US-09-328-352-6968
23	115	3.7	572	2	US-09-949-016-11237
24	115	3.7	572	2	US-09-949-016-11238
25	112.5	3.6	237	2	US-09-134-001C-3057
26	109	3.5	468	2	US-09-710-279-868
27	109	3.5	468	2	US-09-710-279-1618

28	108.5	3.5	584	2	US-09-693-746-22	Sequence 22, Appl
29	107.5	3.5	408	1	US-08-742-440A-6	Sequence 6, Appli
30	107	3.5	353	2	US-09-576-160B-6	Sequence 6, Appli
31	106.5	3.4	504	2	US-09-489-039A-8489	Sequence 8489, Ap
32	106	3.4	1681	2	US-09-920-653B-3	Sequence 3, Appli
33	104.5	3.4	445	2	US-09-605-703B-72	Sequence 72, Appl
34	104.5	3.4	453	1	US-08-439-131A-5	Sequence 5, Appli
35	104.5	3.4	453	1	US-08-440-674-4	Sequence 4, Appli
36	104.5	3.4	453	2	US-08-879-337-6	Sequence 6, Appli
37	104.5	3.4	822	2	US-09-824-734-3	Sequence 3, Appli
38	104	3.4	511	2	US-09-107-532A-6112	Sequence 6112, Ap
39	104	3.4	526	2	US-09-722-377-16	Sequence 16, Appl
40	104	3.4	526	2	US-09-722-377-19	Sequence 19, Appl
41	104	3.4	526	2	US-09-857-896A-41	Sequence 41, Appl
42	103	3.3	356	2	US-09-270-767-46804	Sequence 46804, A
43	102.5	3.3	402	2	US-09-270-767-35644	Sequence 35644, A
44	102.5	3.3	402	2	US-09-270-767-50861	Sequence 50861, A
45	102	3.3	407	2	US-09-328-352-5605	Sequence 5605, Ap

ALIGNMENTS

RESULT 1

US-09-786-681A-4

; Sequence 4, Application US/09786681A

; Patent No. 6692926

; GENERAL INFORMATION:

; APPLICANT: HIDAKA, Jun et al.

; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING L

; FILE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES

; FILE REFERENCE: 0020-4827P

; CURRENT APPLICATION NUMBER: US/09/786.681A

; CURRENT FILING DATE: 2001-01-24

; NUMBER OF SEQ ID NOS: 7

; SOFTWARE: Patent in version 3.0

; SEQ ID NO 4

; LENGTH: 579

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-786-681A-4

Query Match 100.0%; Score 3089; DB 2; Length 579;

Best Local Similarity 100.0%; Pred. No. 2e-297;

Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	AALWLLLLLPRTRADEHEHTYQDKKEVVLMMNTVGPYHNRQETKYKPSLPCVGSKKSI	60
Db	4	AALWLLLLLPRTRADEHEHTYQDKKEVVLMMNTVGPYHNRQETKYKPSLPCVGSKKSI	63
Qy	61	SHYHETIGEALQGVLEBFGSLDIKPKDDVMPATYCEIDLKKEKDAFYVAIKNHVYQMY	120
Db	64	SHYHETIGEALQGVLEBFGSLDIKPKDDVMPATYCEIDLKKEKDAFYVAIKNHVYQMY	123
Qy	121	IDDLPIGWIGEADENGEDYYLWYTKKLEIGFNGNRIVDVNLTSSEKVKLVPTNKIQMSY	180
Db	124	IDDLPIGWIGEADENGEDYYLWYTKKLEIGFNGNRIVDVNLTSSEKVKLVPTNKIQMSY	183
Qy	181	SVKWKSDVKPFEDRFDKYLDPSFFQHRHWPFSINSPNFMVIFLVGLVSMILMRTLURKDYA	240
Db	184	SVKWKSDVKPFEDRFDKYLDPSFFQHRHWPFSINSPNFMVIFLVGLVSMILMRTLURKDYA	243
Qy	241	RYSEKEEDMDMDRLDGEYGWKHQVHGVDFRPSHPLIFSSLIIGSGCQIFAVSLIIVIAM	300
Db	244	RYSEKEEDMDMDRLDGEYGWKHQVHGVDFRPSHPLIFSSLIIGSGCQIFAVSLIIVIAM	303
Qy	301	IEDLYTERGSMSTAI FVYAATSPVNGYFGSLYARQGRWIKOMFTGAFILPAMVCGT	360
Db	304	IEDLYTERGSMSTAI FVYAATSPVNGYFGSLYARQGRWIKOMFTGAFILPAMVCGT	363
Qy	361	AFFINFIATYYHAGRAIPFGTMTAVCCICFPVILPLNLVGTILGRNLISQGNFPCRVNAV	420
Db	364	AFFINFIATYYHAGRAIPFGTMTAVCCICFPVILPLNLVGTILGRNLISQGNFPCRVNAV	423

QY 421 PRPIPEKKWFMEPAVIVCLGILPGSGIFIEWYFIPTSFWAYKIYVYVGFMMVLVLICI 480  
Db 424 PRPIPEKKWFMEPAVIVCLGILPGSGIFIEWYFIPTSFWAYKIYVYVGFMMVLVLICI 483  
QY 481 VTVCVTIVCTYFLNADRYQWTSFLSAASATAIYVVMYSFYVFFKTKMYGLFQTSFYF 540  
Db 484 VTVCVTIVCTYFLNADRYQWTSFLSAASATAIYVVMYSFYVFFKTKMYGLFQTSFYF 543  
QY 541 GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576  
Db 544 GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 579

RESULT 2  
US-09-786-681A-2  
; Sequence 2, Application US/09786681A  
; Patent No. 6692926  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; FILE REFERENCE: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/09/786,681A  
; CURRENT FILING DATE: 2001-01-24  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 2  
; LENGTH: 582  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-786-681A-2

Query Match 100.0%; Score 3089; DB 2; Length 582;  
Best Local Similarity 100.0%; Pred. No. 2e-297;  
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AALMLLLLLLPRTRADEHEHTYQDKEEVLLMNTVGPYHNQETKYKFSLPFCVGSKSI 60  
Db 7 AALMLLLLLLPRTRADEHEHTYQDKEEVLLMNTVGPYHNQETKYKFSLPFCVGSKSI 66  
QY 61 SHYHETLGEALQGVLEPFGSLDIKPKDDVPATYCEIDLDEKRDADFVYAIKNIHYQMY 120  
Db 67 SHYHETLGEALQGVLEPFGSLDIKPKDDVPATYCEIDLDEKRDADFVYAIKNIHYQMY 126  
QY 121 IDDLPIWGIAGEADENGEDYLLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 180  
Db 127 IDDLPIWGIAGEADENGEDYLLWTYKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQMSY 186  
QY 181 SVKWKSDVKPEDFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDYA 240  
Db 187 SVKWKSDVKPEDFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDYA 246  
QY 241 RYSKEEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSSLIIGSGCOIFAVSLIIVIAM 300  
Db 247 RYSKEEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSSLIIGSGCOIFAVSLIIVIAM 306  
QY 301 IEDLYTERGSMSTAIFVYAATSPVNGYFGSLYARQGGRRWIKOMFIGAFLIPAMVCGT 360  
Db 307 IEDLYTERGSMSTAIFVYAATSPVNGYFGSLYARQGGRRWIKOMFIGAFLIPAMVCGT 366  
QY 361 AFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVAV 420  
Db 367 AFFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVAV 426  
QY 421 PRPIPEKKWFMEPAVIVCLGILPGSGIFIEWYFIPTSFWAYKIYVYVGFMMVLVLICI 480  
Db 427 PRPIPEKKWFMEPAVIVCLGILPGSGIFIEWYFIPTSFWAYKIYVYVGFMMVLVLICI 486  
QY 481 VTVCVTIVCTYFLNADRYQWTSFLSAASATAIYVVMYSFYVFFKTKMYGLFQTSFYF 540  
Db 487 VTVCVTIVCTYFLNADRYQWTSFLSAASATAIYVVMYSFYVFFKTKMYGLFQTSFYF 546

QY 541 GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576  
Db 547 GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 582

RESULT 3  
US-09-270-767-32308  
; Sequence 32308, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 32308  
; LENGTH: 257  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-32308

Query Match 35.8%; Score 1107; DB 2; Length 257;  
Best Local Similarity 78.2%; Pred. No. 2.4e-101;  
Matches 201; Conservative 27; Mismatches 29; Indels 0; Gaps 0;

QY 180 YSVKWKSDVKPEDFDKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 239  
Db 1 YEVNWKPSKVEFKNRFDKYLDPNFFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 60  
QY 240 ARYSKEEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSSLIIGSGCOIFAVSLIIVIA 299  
Db 61 ARYSKEEEMDDMDRLDGEYGHQVGDVFRPSSHPLIFSSLIIGSGCOIFAVSLIIVIA 120  
QY 300 MIEDLYTERGSMSTAIFVYAATSPVNGYFGSLYARQGGRRWIKOMFIGAFLIPAMVCG 359  
Db 121 IGVGLYTERGSMSTAIFVYAATSPVNGYFGSLYARQGGRRWIKOMFIGAFLIPAMVCG 180  
QY 360 TAFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNA 419  
Db 181 TAFINFIAIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFPCRVNA 240  
QY 420 VPRPIPEKKWFMEPAVI 436  
Db 241 VPRPIPEKKWFMEPLII 257

RESULT 4  
US-08-959-004-10  
; Sequence 10, Application US/08959004  
; Patent No. 6197543  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Shah, Purvi  
; APPLICANT: Kaser, Matthew  
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS



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Db 272 SVSFEEDDKIRWASRDYVILESMPTH- IQWFSIMNSLVIVFLSGVMAMIMLTLLHKDI 330
Qy 240 ARYSKEEEMDDMDRLDGEYGMKQVHGDVFRPSSHPLIFSSLSIGSGCQIFAVSLIIVIA 299
Db 331 ARYN--QMDSTE-DAQEEFGKLVHGDIFRPPKGMLLSVFLSGGTQILIMTFTVLFFA 386
Qy 300 MIEDLY-TERGSMSTAIFFVAAATSPVNGYFGGSLYARQGGRRWIKOMFICAFILPAMVC 358
Db 387 CLGLFSPANRGAALMTCVAVLVLLGTPAGYVAARFYKSGGKWKTNVLLTSFLCPGIVF 446
Qy 359 GTAFFINFIAIYHASRAIPFGTMVAVCCIFCVILPLNLVGTILGRNLGQPNFPCRVN 418
Db 447 ADFIMLLWGESSAAIPGTLVAILALWFCISVPLTFIGAYFGPKNAIEH-PVRTN 505
Qy 419 AVPRPIPEKKWMEPAVIVCLGILPFGSIFIEFYFTSFVAYKIYVYVGFMMVLVIL 478
Db 506 QIPROIPEQSYTKPLPGIIMGILPFGCIFQILFINSIWSHQMYMFGFLVFLVIL 565
Qy 479 CIVTVCVTIVCTYLLNAEDYRWQTSFLSAASTAIYVYMYSFYFYFCKMYGLFQTSF 538
Db 566 VITCSEATILLCYFHLCAEDYHWQRSFSLTSGFTAVYFLIYAVHYFFSKLQITGTASTIL 625
Qy 539 YFGYMAVFSTALGIMCGAIGYMGTSFVRKIYTNVKID 576
Db 626 YFGYTMIMVLIFLFTGTIGFFACFWFVKIYSVVKVD 663

RESULT 6
US-09-949-016-9494
; Sequence 9494, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9494
; LENGTH: 676
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-9494

Query Match 27.3%; Score 843.5; DB 2; Length 676;
Best Local Similarity 31.2%; Pred. No. 1.4e-74;
Matches 199; Conservative 120; Mismatches 234; Indels 85; Gaps 16;

Qy 9 LLPRTADEHEHTYQDKKEVVLMNTVGPYHNRQETKYFLPFCVGSKKSIHYHETLG 68
Db 54 LAPVNFDEEKKSDCEKAEITELFVNRLDSVES-VLPYEYTAFFDFOASEG--KRPSENLG 110
Qy 69 EALQGVLEPFGSLDIKFKDD-----VMPATY-CEIDLDKERDAFVYAIKNHYWYQMYID 122
Db 111 QVLFGRIEIPSYKFTFNKKTCKLVCTKYTHTEKAEDKQKLEFLKKSMLNLYQHMIWD 170
Qy 123 DLPI-W-----GTVGBADENGED--YVLWT----- 144
Db 171 NMPVTWCYDVEDGQFCNPGPGICGYITDKGHAKDACVISSDPHERDFTFIHNVHDIKY 230
Qy 145 YKKLEIGFNGNRIV-----DYNLTSEGKVLVPNTKIOMSY 180
Db 231 YHVVTGSMGARLVAALKLEPKSFQKTHIDKPCDGGPPMDISNKASGEI-----KIATY 284
Qy 181 SVKWKKSD-VKFDKDPKYLDPSPFQHRHWFISFNFSMVMVFLVGLVSLMILMRLTKDY 239
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Db 285 SVSFEEDDKIRWASRDYVILESMPTH- IQWFSIMNSLVIVFLSGVMAMIMLTLLHKDI 343
Qy 240 ARYSKEEEMDDMDRLDGEYGMKQVHGDVFRPSSHPLIFSSLSIGSGCQIFAVSLIIVIA 299
Db 344 ARYN--QMDSTE-DAQEEFGKLVHGDIFRPPKGMLLSVFLSGGTQILIMTFTVLFFA 399
Qy 300 MIEDLY-TERGSMSTAIFFVAAATSPVNGYFGGSLYARQGGRRWIKOMFICAFILPAMVC 358
Db 400 CLGLFSPANRGAALMTCVAVLVLLGTPAGYVAARFYKSGGKWKTNVLLTSFLCPGIVF 459
Qy 359 GTAFFINFIAIYHASRAIPFGTMVAVCCIFCVILPLNLVGTILGRNLGQPNFPCRVN 418
Db 460 ADFIMLLWGESSAAIPGTLVAILALWFCISVPLTFIGAYFGPKNAIEH-PVRTN 518
Qy 419 AVPRPIPEKKWMEPAVIVCLGILPFGSIFIEFYFTSFVAYKIYVYVGFMMVLVIL 478
Db 519 QIPROIPEQSYTKPLPGIIMGILPFGCIFQILFINSIWSHQMYMFGFLVFLVIL 578
Qy 479 CIVTVCVTIVCTYLLNAEDYRWQTSFLSAASTAIYVYMYSFYFYFCKMYGLFQTSF 538
Db 579 VITCSEATILLCYFHLCAEDYHWQRSFSLTSGFTAVYFLIYAVHYFFSKLQITGTASTIL 638
Qy 539 YFGYMAVFSTALGIMCGAIGYMGTSFVRKIYTNVKID 576
Db 639 YFGYTMIMVLIFLFTGTIGFFACFWFVKIYSVVKVD 676

RESULT 7
US-10-104-047-3669
; Sequence 3669, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. 6943241el full length cDNA
; FILE REFERENCE: HI-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3669
; LENGTH: 573
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-3669

Query Match 26.3%; Score 813; DB 2; Length 573;
Best Local Similarity 31.6%; Pred. No. 1.1e-71;
Matches 188; Conservative 100; Mismatches 204; Indels 102; Gaps 13;

Qy 45 YKYFSLPFCVGSKKSIHYHETLGEALQGVLEFSGLDIKFKDD-----VMPATY----- 94
Db 20 YEYTAFFDFOASEG--KRPSENIGQVLFGERIEPSPYKFTFNKKTCKLVCTKYHTEKA 77
Qy 95 -----CEIDLDKERDAFVYAIKNHYWYQMYIDDLPIWG 128
Db 78 EDQRCFNPGPGICGYITDKGRAKDACVISSDPHERDFTY--IFNVHDIKY----- 127
Qy 129 IVGEADENGEDYYLWYTKKLEIGFNGNRIV-----DYNLTS 164
Db 128 -----YHVVTGSMGARLVAALKLEPKSFQKTHIDKPCDGGPPMDISNKA 171
Qy 165 EGKVKLVLPNTKIOMSYSVKWKSD-VKFDKDPKYLDPSPFQHRHWFISFNFSMVMVFL 223
Db 172 SGEI-----KIATYTSVSFDEDDKIRWASRDYIILSMPTH-IQWFSIMNSLVIVFL 224
Qy 224 VGLVSLMILMRLTKDYARYSKSEEMDDMDRLDGEYGMKQVHGDVFRPSSHPLIFSSLSIG 283
Db 225 SGVMAMIMLTLLHKDIARYN---QMDSTE-DAQEEFGKLVHGDIFRPPKGMLLSVFLG 280
Qy 284 SGQIFAVSLIIVIAIMIEDLY-TERGSMSTAIFFVAAATSPVNGYFGGSLYARQGGRRW 342
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Db 281 SGTQILIMTFVTLFFACLGFLSPANKGALMTCAVVLWLVLLGTPAGYVAARFYKSGGEKW 340  
QY 343 IKQMEIGARLIIPAMVCGTAPFNFATYIYHARAIPTFGTMVAVCCIFVFILPLNLVGTI 402  
Db 341 KTNVLLTSLCPGIVFADPFIMNLILWEGSSAAIPFGTLVAILALWFCISVPLTFIGAY 400  
QY 403 LGRNLSGQNFPCRNVAPRPPIPEKKWMEPAVIVCLGGILPFGSIFTEMPIFTSPWAY 462  
Db 401 FGFKNAIEH-FVRINOIPIQIPEQSFTYKPLPGIIMGILPPGCIQIOLFILINSIWSH 459  
QY 463 KIYYVYGFMMVLVLCIVTCVTVYFLNAEDYRWQWTSFLSAASTAIYVVMYSFY 522  
Db 460 QMYVMFGFLVFIILVITCSBATILLCVFLHCAEDYHQMWRSLTSGFTAVYFLIYAVH 519  
QY 523 YVFEKTKMYGLFQTSFYFGYMAVFSALGIMCAIGYMGTSFAVRKIYTNVKID 576  
Db 520 YFFSKLOITGASAIYFGYTMIMVLIFLFTGTIGFVFCFVTKIYSVVKVD 573

RESULT 8

US-08-959-004-11  
; Sequence 11, Application US/08959004  
; Patent No. 6197543  
; GENERAL INFORMATION:  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Yue, Henry  
; APPLICANT: Corley, Neil C.  
; APPLICANT: Lal, Preeti  
; APPLICANT: Shah, Purvi  
; APPLICANT: Kaser, Matthew  
; TITLE OF INVENTION: HUMAN VESICLE MEMBRANE PROTEIN-LIKE  
; TITLE OF INVENTION: PROTEINS  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: Incyte Pharmaceuticals, Inc.  
; STREET: 3174 Porter Drive  
; CITY: Palo Alto  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94304  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/959,004  
; FILING DATE: Herewith  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Billings, Lucy J.  
; REGISTRATION NUMBER: 36,749  
; REFERENCE/DOCKET NUMBER: PF-0414 US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 650-855-0555  
; TELEFAX: 650-845-4166  
; TELEX:  
; INFORMATION FOR SEQ ID NO: 11:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 667 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; IMMEDIATE SOURCE:  
; LIBRARY: GenBank  
; CLONE: 2131246  
; US-08-959-004-11  
Query Match 22.5%; Score 694; DB 2; Length 667;

Best Local Similarity 27.0%; Pred. No. 9e-60;  
Matches 175; Conservative 116; Mismatches 254; Indels 102; Gaps 14;  
QY 21 TYQKEEVLLMMNTVGP---YHNROE-----TYKPSLDFCVGSKKISHY 63  
Db 32 TYRENDNIPLNLVNLHTPSMNYQHKDEDGNNYSGDKENFLYSDYYYNRPFCQPEKVRKQ 91  
QY 64 HETLGEALQGVLEBFSGLDIKFKDDVMPATYCEIDLKEDKDAFYAIKNHWYQMYIDD 123  
Db 92 PESLGSVIFGRIYNSPQLANLQKECESLCKTVIPGDDAKFINKLKGFFQNWLDG 151  
QY 124 LP-----TWGIVGEADENGEDYYLWT-----YK 146  
Db 152 LPAAREVVDGRTKTSFYGAGENLGFVQVTQGTDEATPKGAETTDKDOVELETRNDRNVK 211  
QY 147 KLEIGFNGNR---IVDVNLTSSEGVKLV-----PNT----- 174  
Db 212 TYELPYFANHPDIMEYHDSRGYRNVVGVIVPEVPSIKRSPGTCCTTGSPLMLDEGNDN 271  
QY 175 KIOMSYSVKKKSDVKPFEDRPDKYL--DPSFFQHRHWHFISFNMFVILVGLVSMIL 231  
Db 272 EYFTYSVKFNESATSWATRWDKYLHVYDPS-----IQWFLINFSLVVLLSSVVIHSL 326  
QY 232 MRTLKDYARYSKBEEMDDMDRDLGDEYGVKQVHGDVFRPSSHPLIFSLIGSGQIFAV 291  
Db 327 LRLAKSDFARYN-ELNLDD--DFQEDSGWKLNHGVDVFRSPSQSLTSLVSGVQLFLM 382  
QY 292 SLIIVIVAMIEDLY-TERGSMLETAIFYAATSPVNGYFGGSLYARQGRWIKOMFTGA 350  
Db 383 VTCISFFAALGFLSPSRGSLATYMFILYLFVFGSYTSMGIYKFFNGFYKANLILTP 442  
QY 351 FLIPAMVCGTAPFNFATYIYHARAIPTFGTMVAVCCIFVFILPLNLVGTILGNLSQ 410  
Db 443 LLVPGAILLIILINFLFMFVHSSGVIPASTLFPWFVLFPSLPSAGSLIARKCHW 502  
QY 411 PNFCRVNAVPRPIPEKKWMEPAVIVCLGGILPFGSIFIBMYIFTFSFWAYKIYYVYGF 470  
Db 503 DEHPTKTNQIARQIPFPQWYLLKTIPTALJAGIFPFGSIAVELYFIYTSLWFKIFYMFGP 562  
QY 471 MMLVLVILCIVTCVTVYFLNAEDYRWQWTSF-LSAASTAIYVVMYSFYFFYFKTK 529  
Db 563 LFFSFLLLTLTSSLSLTLITLHYSLCLENKWKQWGRFIIGGAGCALYFIHISL-LFTKPK 620  
QY 530 MYGLFQTSFYFGYMAVFSALGIMCAIGYMGTSFAVRKIYTNVKID 576  
Db 621 LGGTTIVLYVGYSSVISLCLLVTSIGFISMSLFFVRKIYSSIKVD 667

RESULT 9

US-09-270-767-44213  
; Sequence 44213, Application US/09270767  
; Patent No. 6703491  
; GENERAL INFORMATION:  
; APPLICANT: Homburger et al.  
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster  
; FILE REFERENCE: File Reference: 7326-094  
; CURRENT APPLICATION NUMBER: US/09/270,767  
; CURRENT FILING DATE: 1999-03-17  
; NUMBER OF SEQ ID NOS: 62517  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 44213  
; LENGTH: 133  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-270-767-44213  
Query Match 20.3%; Score 628; DB 2; Length 133;  
Best Local Similarity 83.5%; Pred. No. 3e-54;  
Matches 111; Conservative 14; Mismatches 8; Indels 0; Gaps 0;  
QY 444 PFSGIFIMYFIPTSPWAYKIYYVYGMMLVILCIVTCVTVYFLNAEDYRWQW 503  
Db 1 PFSGIFIMYFIPTSPWAYKIYYVYGMMLVILCIVTCVTVYFLNAEDYRWQW 60



	Qy	398	LVCVTILGRNLSQP--NPPCRVAWVPRIPEKKWMFEPANIVCLGGIPLPGSGTPIEWYFI	455
			: :	
	Db	65	VGSILASN---RPLSLSPVVRTNQIPROIQTPQWYLSTIPVMFTSGIFPFEGSIAVEMYFI	121
			: :	
	Qy	456	FTSFWAYKIYYVGFMFLVLVTLCTIVTVCVTIIVCTYFLLNADRYRMQWTSLFSAASTAYI	515
			: :	
	Db	122	YSISWFNKLI FYMFGFLFCFFIMLITSSLTIIIMLYITLSENTRYKWKSLFVGGGCAIY	181
			: :	
	Qy	516	VMYSYFPYYYFPFKT---KMVGLFQTFSFYGYMAVFSTALGIMCGAIGVMGTSAFAVRKIYTN	572
			: :	
	Db	182	VPHTS----FPLTGGEKGGFSSLVLYSGYSAVISLLVFLCCSGSIGPISSLIFVRLIYQG	237
			: :	
	Qy	573	VKID	576
			: : :	
	Db	238	IKID	241

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RESULT 14
US-09-513-999C-7785
; Sequence 7785, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.Y.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 7785
; LENGTH: 87
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 2
; OTHER INFORMATION: Xaa=Lys or Met or Arg or Thr
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 55
; OTHER INFORMATION: Xaa=Ala or Asp or Gly or Val
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 73
; OTHER INFORMATION: Xaa=Ala or Asp
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: 74
; OTHER INFORMATION: Xaa=Lys or Thr
; US-09-513-999C-7785

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RESULT 15  
US-09-107-433-3877  
; Sequence 3877, Application US/09107433  
; Patent No. 6800744

```

GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE FOR DIAGNOSTIC THERAPEUTICS
NUMBER OF SEQUENCES: 5206
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/107,433
FILING DATE: 30-Jun-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/ 085131
FILING DATE: May 12, 1998
APPLICATION NUMBER: 60/051553
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariniello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 3877:
SEQUENCE CHARACTERISTICS:
LENGTH: 574 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...574
SEQUENCE DESCRIPTION: SEQ ID NO: 3877:
US-09-107-433-3877

Query Match      4.1%; Score 127; DB 2; Length 574;
Best Local Similarity 19.8%; Pred. No. 0.0013;
Matches       73; Conservative 60; Mismatches 117; Indels 118; Gaps 17;

Qy   203 FFQHRITWFSIFNSFMVIFLVGLYSMLMTPLRKDYARYSKKEEMDDMDRLDGEVG-- 260
    ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   33 FFRRR-----FYRIVPPVWLVLVTMPFTFLVRQDV-----AGIGGQIASV 74

Qy   261 -----WKOVGHVDVFPSSHPILPSSLIGSCQIPAVSLIIVIAMIEDLYTERGSMLS 313
    : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   75 LGFWTNFYELLTGGSYESQFPHLPHVHWSLAVEHYHIIWLGVAWFL-STHAKSNQLK 133

Qy   314 TAIFVYAATSPVNGYFGSLSYARQGRRRWIKOMFIGAFILPAMVCGTAFFINFIAIYYHA 373
    : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   134 GWVFLLSAVAFLISFF-----SMFIGSFVLTSY--SSVYFSSLTHVY--- 173

Qy   374 SRAIPF--GTWAVACCICFFVILPLNVG----TILGRNLSGQPNCPCRVNAVPRPIPEK 427
    || | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   174 ----PFLGSLA-----TIIVGVROTTSLVKQL-----DK 199

Qy   428 KWFMEPAVIVCLGILPFGSIFIEMYFI-FTSFWAYKIYVVYGFMMVLVLVICITVTCVT 486
    : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db   200 IWLURKTILVPGGG---PGFLVLLTFPVKFTVLFAYLI-----GFLLASLAALAMILAA-- 250

Qy   487 ICTVTFLLNAEDYRWQ---WTSFLSAAATAIYVMYSFYIYFPFKTK-----MY 531

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Db      251      :||: : : |||: | ||: : ||: : ||: | :  
-----RVLHEKTHHQEPKIIISFLADTSYAVYLFHWPFIIFSQTSNLLAVLLTLC SY 305  
Qy      532      GLFQTSFY 539  
        |  
        |||  
Db      306      GFASLSFY 313
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Search completed: December 7, 2005, 12:44:27  
Job time : 38.4542 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: December 7, 2005, 12:43:07 ; Search time 126.55 Seconds  
(without alignments)  
1901.779 Million cell updates/sec

Title: US-09-319-724B-14  
Perfect score: 3089  
Sequence: 1 AALMLLLLLLPRTRADEHEH.....IGYMTSAFVRKIYTNVKID 576

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3089	100.0	579	US-10-755-466-4	Sequence 4, Appli
2	3089	100.0	582	US-10-755-466-2	Sequence 2, Appli
3	2916	94.4	545	US-09-374-046A-26	Sequence 26, Appl
4	2916	94.4	545	US-10-616-263-26	Sequence 26, Appl
5	2487	80.5	586	US-10-287-436A-620	Sequence 620, App
6	2222.5	71.9	567	US-11-097-143-22278	Sequence 22278, A
7	2187	70.8	530	US-10-205-219-121	Sequence 121, App
8	1744.5	56.5	596	US-10-425-115-325471	Sequence 325471,
9	1744	56.5	617	US-10-437-963-141888	Sequence 141888,
10	1738.5	56.3	594	US-10-767-701-44284	Sequence 44284, A
11	1736	56.2	595	US-10-425-115-325582	Sequence 325582,
12	1716	55.6	596	US-10-437-963-116913	Sequence 116913,
13	1712	55.4	595	US-10-739-930-9909	Sequence 9909, Ap
14	1636.5	53.0	576	US-10-425-114-66140	Sequence 66140, A
15	1635.5	52.9	552	US-10-425-115-286624	Sequence 286624,
16	1430.5	46.3	500	US-10-425-115-206340	Sequence 206340,
17	1313	42.5	424	US-10-437-963-103141	Sequence 103141,
18	1153.5	37.3	592	US-10-424-599-174369	Sequence 174369,
19	1143	37.0	692	US-10-425-115-202293	Sequence 202293,
20	1142	37.0	627	US-10-425-114-42573	Sequence 42573, A
21	1129	36.5	623	US-10-425-114-62405	Sequence 62405, A
22	1128	36.5	624	US-10-425-114-45661	Sequence 45661, A
23	1128	36.5	647	US-10-424-599-204944	Sequence 204944,
24	1126.5	36.5	595	US-10-767-701-45514	Sequence 45514, A
25	1125.5	36.4	589	US-10-425-115-359244	Sequence 359244,
26	1115	36.1	594	US-10-739-930-11084	Sequence 11084, A
27	1115	36.1	645	US-10-739-930-11074	Sequence 11074, A

ALIGNMENTS

RESULT 1

US-10-755-466-4  
; Sequence 4, Application US/10755466  
; Publication No. US20040265854A1  
; GENERAL INFORMATION:  
; APPLICANT: HIDAKA, Jun et al.  
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I  
; FILE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES  
; FILE REFERENCE: 0020-4827P  
; CURRENT APPLICATION NUMBER: US/10/755,466  
; CURRENT FILING DATE: 2004-01-13  
; PRIOR APPLICATION NUMBER: US/09/786,681  
; PRIOR FILING DATE: 2001-04-30  
; NUMBER OF SEQ ID NOS: 7  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 579  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-755-466-4

Query Match	100.0%	Score	3089;	DB	5;	Length	579;
Best Local Similarity	100.0%	Pred. No.	6.6e-275;	Mismatches	0;	Indels	0;
Matches	576;	Conservative	0;	0;	0;	Gaps	0;
Qy	1	AALMLLLLLLPRTRADEHEHTYQDKEEVLWNTVGPYHNRQETKYFSLPFCVGSKSI	60				
Db	4	AALMLLLLLLPRTRADEHEHTYQDKEEVLWNTVGPYHNRQETKYFSLPFCVGSKSI	63				
Qy	61	SHYHETIGEALQGVLEPFGSLDIPKDDVMPATYCEIDLDEKRDFAFYAIKNHYYQMY	120				
Db	64	SHYHETIGEALQGVLEPFGSLDIPKDDVMPATYCEIDLDEKRDFAFYAIKNHYYQMY	123				
Qy	121	IDDLPIGIVCEADENGEDYLYWTKLEIFGNGNRIYDVNLTSEGVKLVPTNKIOMSY	180				
Db	124	IDDLPIGIVCEADENGEDYLYWTKLEIFGNGNRIYDVNLTSEGVKLVPTNKIOMSY	183				
Qy	181	SVKWKSDVKEFDKFDKLDPSFFQHRTHWFSIFNFSFMVIFLVGLVSMILMRTLKDYA	240				
Db	184	SVKWKSDVKEFDKFDKLDPSFFQHRTHWFSIFNFSFMVIFLVGLVSMILMRTLKDYA	243				
Qy	241	RYSEKEEMDDMDRLDGDYGMKQVHGVDFRPSHPLIFSSLIGSGCQIFAVSLIIVAM	300				
Db	244	RYSEKEEMDDMDRLDGDYGMKQVHGVDFRPSHPLIFSSLIGSGCQIFAVSLIIVAM	303				
Qy	301	IEDLYTERGSMISTAIIFYAATSPVNGYFGSLYARQGRWIKOMFIGAFLIPAWVCGT	360				
Db	304	IEDLYTERGSMISTAIIFYAATSPVNGYFGSLYARQGRWIKOMFIGAFLIPAWVCGT	363				
Qy	361	AFFINFTAIYYHAGRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSQPNPFCRVNAV	420				

```
|||||
364 AFFINFAIYHASKRAIPFGTMVAVCCICFFVLPLNLVGTILGRNLSGQPNFPCRVNAV 423
QY PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEWYFIFTSFWAYKIYVYVGFMMVLVLICI 480
Db PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEWYFIFTSFWAYKIYVYVGFMMVLVLICI 483
QY VTVCVTIVCTYFLLNAEDYRWQTSFLSAATAIYVVMYSFYFFFKTKMYGLFQTSFYF 540
Db VTVCVTIVCTYFLLNAEDYRWQTSFLSAATAIYVVMYSFYFFFKTKMYGLFQTSFYF 543
QY GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576
Db GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 579

RESULT 2
US-10-755-466-2
; Sequence 2, Application US/10755466
; Publication No. US20040265854A1
; GENERAL INFORMATION:
; APPLICANT: HIDAKA, Jun et al.
; TITLE OF INVENTION: RECOMBINANT HUMAN SM-11044-BINDING RECEPTOR PROTEINS EXHIBITING I
; TITLE OF INVENTION: BINDING ACTIVITIES, AND THEIR USES
; FILE REFERENCE: 0020-4827P
; CURRENT APPLICATION NUMBER: US/10/755.466
; PRIOR FILING DATE: 2004-01-13
; PRIOR FILING DATE: US/09/786, 681
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-755-466-2

Query Match 100.0%; Score 3089; DB 5; Length 582;
Best Local Similarity 100.0%; Pred. No. 6.7e-275;
Matches 576; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AALMLLLLLPRTRADEHHTYQDKEEVLMWMTVGPVHNQETKYFSLPFCVGSKKSI 60
Db 7 AALMLLLLLPRTRADEHHTYQDKEEVLMWMTVGPVHNQETKYFSLPFCVGSKKSI 66
QY 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKKEKDAFYAIKKNHYWQY 120
Db 67 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKKEKDAFYAIKKNHYWQY 126
QY 121 IDDLPIWGIAGEADENGEDYLYWTKKLEIGFNGNRIVDNLTSSEKVKLVNPTKIOMSY 180
Db 127 IDDLPIWGIAGEADENGEDYLYWTKKLEIGFNGNRIVDNLTSSEKVKLVNPTKIOMSY 186
QY 181 SVKWKSDVKPFDFKYLDPSPFQHRHWFPSIFNSFMWVIFLVGLVSMILMRTLKDYA 240
Db 187 SVKWKSDVKPFDFKYLDPSPFQHRHWFPSIFNSFMWVIFLVGLVSMILMRTLKDYA 246
QY 241 RYSKEEEMDDMDRLDGLDEYGWKQVHGDVFRPSSHPLIFSSILGSGCQIFAVSLIIVIAM 300
Db 247 RYSKEEEMDDMDRLDGLDEYGWKQVHGDVFRPSSHPLIFSSILGSGCQIFAVSLIIVIAM 306
QY 301 IEDLYTERGSMLSAIFVYAATSVPNGYFGSLYAROGGRRWIKQMPFIFLIPAMVCGT 360
Db 307 IEDLYTERGSMLSAIFVYAATSVPNGYFGSLYAROGGRRWIKQMPFIFLIPAMVCGT 366
QY 361 AFFINFAIYHASKRAIPFGTMVAVCCICFFVLPLNLVGTILGRNLSGQPNFPCRVNAV 420
Db 367 AFFINFAIYHASKRAIPFGTMVAVCCICFFVLPLNLVGTILGRNLSGQPNFPCRVNAV 426
QY 421 PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEWYFIFTSFWAYKIYVYVGFMMVLVLICI 480
Db 427 PRPIPEKKWFMEPAVIVCLGGLPFGSIFIEWYFIFTSFWAYKIYVYVGFMMVLVLICI 486
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QY 481 VTVCVTIVCTYFLLNAEDYRWQTSFLSAATAIYVVMYSFYFFFKTKMYGLFQTSFYF 540
Db 487 VTVCVTIVCTYFLLNAEDYRWQTSFLSAATAIYVVMYSFYFFFKTKMYGLFQTSFYF 546
QY 541 GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576
Db 547 GYMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 582

RESULT 3
US-09-374-046A-26
; Sequence 26, Application US/09374046A
; Publication No. US20030096951A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M.
; APPLICANT: LaVallie, Edward R.
; APPLICANT: Collins-Racie, Lisa A.
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Agostino, Michael J.
; APPLICANT: Steininger II, Robert J.
; APPLICANT: Spaulding, Vikki
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: GI 6075-83A
; CURRENT APPLICATION NUMBER: US/09/374,046A
; CURRENT FILING DATE: 1999-08-13
; NUMBER OF SEQ ID NOS: 240
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 545
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-374-046A-26

Query Match 94.4%; Score 2916; DB 3; Length 545;
Best Local Similarity 99.8%; Pred. No. 5e-259;
Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 32 MNTVGPVHNQETKYFSLPFCVGSKKSI SHYHETLGEALQGVLEFSGLDIKFKDDVMP 91
Db 1 MNTVGPVHNQETKYFSLPFCVGSKKSI SHYHETLGEALQGVLEFSGLDIKFKDDVMP 60
QY 92 ATYCEIDLKKEKDAFYAIKKNHYWQYIDDLPIWGIAGEADENGEDYLYWTKKLEIG 151
Db 61 ATYCEIDLKKEKDAFYAIKKNHYWQYIDDLPIWGIAGEADENGEDYLYWTKKLEIG 120
QY 152 FNGNRIVDNLTSSEKVKLVNPTKIOMSYSVKWKSDVKPFDFKYLDPSPFQHRHWF 211
Db 121 FNGNRIVDNLTSSEKVKLVNPTKIOMSYSVKWKSDVKPFDFKYLDPSPFQHRHWF 180
QY 212 SIFNSFMWVIFLVGLVSMILMRTLKDYARYSKSEEMDDMDRLDGLDEYGWKQVHGDVFRP 271
Db 181 SIFNSFMWVIFLVGLVSMILMRTLKDYARYSKSEEMDDMDRLDGLDEYGWKQVHGDVFRP 240
QY 272 SSHPLIFSSILGSGCQIFAVSLIIVIAMTEDLYTERGSMLSAIFVYAATSVPNGYFGG 331
Db 241 SSHPLIFSSILGSGCQIFAVSLIIVIAMTEDLYTERGSMLSAIFVYAATSVPNGYFGG 300
QY 332 SLVAROGGRRWIKQMPFIFLIPAMVCGTFAFFINFAIYHASKRAIPFGTMVAVCCICFF 391
Db 301 SLVAROGGRRWIKQMPFIFLIPAMVCGTFAFFINFAIYHASKRAIPFGTMVAVCCICFF 360
QY 392 VILPLNLVGTILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGLPFGSIFIE 451
Db 361 VILPLNLVGTILGRNLSGQPNFPCRVNAVPRPIPEKKWFMEPAVIVCLGGLPFGSIFIE 420
QY 452 MYFIFTSFWAYKIYVYVGFMMVLVLICITVCTYFLLNAEDYRWQTSFLSAAS 511
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Db 421 MYFIFTSWAYKIYYVGFMMVLVLICIVTVCVITVCTYFLNNAEDYRQWTSFLSAAS 480  
 QY 512 TAIYVYMTSFYFFPKTKMYGLFQTSFYFGYMAVSTALGIMCGAIGYMGTSFAFVKIY 571  
 Db 481 TAIYVYMTSFYFFPKTKMYGLFQTSFYFGYMAVSTALGIMCGAIGYMGTSFAFVKIY 540  
 QY 572 NVKID 576  
 Db 541 NVKID 545

RESULT 4  
 US-10-616-263-26  
 ; Sequence 26, Application US/10616263  
 ; Publication No. US20040038276A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Jacobs, Kenneth  
 ; APPLICANT: McCoy, John M.  
 ; APPLICANT: LaVallie, Edward R.  
 ; APPLICANT: Collins-Racie, Lisa A.  
 ; APPLICANT: Evans, Cheryl  
 ; APPLICANT: Merberg, David  
 ; APPLICANT: Treacy, Maurice  
 ; APPLICANT: Agostino, Michael J.  
 ; APPLICANT: Steining, II, Robert J.  
 ; APPLICANT: Spaulding, Vikki  
 ; APPLICANT: Wong, Gordon G.  
 ; APPLICANT: Clark, Hilary  
 ; APPLICANT: Fechtel, Kim  
 ; APPLICANT: Genetics Institute, Inc.  
 ; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
 ; FILE REFERENCE: 00766.000103.5  
 ; CURRENT APPLICATION NUMBER: US/10/616,263  
 ; CURRENT FILING DATE: 2003-07-08  
 ; NUMBER OF SEQ ID NOS: 240  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 26  
 ; LENGTH: 545  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-616-263-26

Query Match 94.4%; Score 2916; DB 4; Length 545;  
 Best Local Similarity 99.8%; Pred. No. 5e-259;  
 Matches 544; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 32 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGEVELEFSGLDIKPKDDVMP 91  
 Db 1 MNTVGPYHNRQETKYFSLPFCVSGSKSISHYHETLGEALQGEVELEFSGLDIKPKDDVMP 60  
 QY 92 ATYCEIDLKEDKDAFVAIAKHVYQMYIDDLPIWIGVGEADENGEDYLLTYKKLEIG 151  
 Db 61 ATYCEIDLKEDKDAFVAIAKHVYQMYIDDLPIWIGVGEADENGEDYLLTYKKLEIG 120  
 QY 152 FNGNRIVDNLTSSEGVKVLVNTKIQMSYSVKWKSVDKVFEDRDKYLDPSFQRIHWF 211  
 Db 121 FNGNRIVDNLTSSEGVKVLVNTKIQMSYSVKWKSVDKVFEDRDKYLDPSFQRIHWF 180  
 QY 212 SIFNSFMVIFLVGLVSMILMTRLDKDYARYSKBEMDDMDRLDGEYGVKQVHGDVFRP 271  
 Db 181 SIFNSFMVIFLVGLVSMILMTRLDKDYARYSKBEMDDMDRLDGEYGVKQVHGDVFRP 240  
 QY 272 SSHPLIFSSLGSGCOIFAVSLIIVIAMIEDLYTERGSMSTAIFFVAATSPVNGYFGG 331  
 Db 241 SSHPLIFSSLGSGCOIFAVSLIIVIAMIEDLYTERGSMSTAIFFVAATSPVNGYFGG 300  
 QY 332 SIYARQGRRTWKQMFAGFLIPAMVCGTAFINFIYHARAIPTCTMVAVCCICFF 391  
 Db 301 SIYARQGRRTWKQMFAGFLIPAMVCGTAFINFIYHARAIPTCTMVAVCCICFF 360  
 QY 392 VILPLNLVGTILGRNLGSGPNPCRVNAVPRIPBKKWFMPEPAVIVCLGGLPFGSIFTE 451

Db 361 VILPLNLVGTILGRNLGSGPNPCRVNAVPRIPBKKWFMPEPAVIVCLGGLPFGSIFTE 420  
 QY 452 MYFIFTSWAYKIYYVGFMMVLVLICIVTVCVITVCTYFLNNAEDYRQWTSFLSAAS 511  
 Db 421 MYFIFTSWAYKIYYVGFMMVLVLICIVTVCVITVCTYFLNNAEDYRQWTSFLSAAS 480  
 QY 512 TAIYVYMTSFYFFPKTKMYGLFQTSFYFGYMAVSTALGIMCGAIGYMGTSFAFVKIY 571  
 Db 481 TAIYVYMTSFYFFPKTKMYGLFQTSFYFGYMAVSTALGIMCGAIGYMGTSFAFVKIY 540  
 QY 572 NVKID 576  
 Db 541 NVKID 545

RESULT 5  
 US-10-287-436A-620  
 ; Sequence 620, Application US/10287436A  
 ; Publication No. US20050202421A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: CHILDREN'S HOSPITAL MEDICAL CENTER  
 ; TITLE OF INVENTION: METHOD FOR DIAGNOSIS AND TREATMENT OF  
 ; FILE REFERENCE: 10872.514696  
 ; CURRENT APPLICATION NUMBER: US/10/287,436A  
 ; CURRENT FILING DATE: 2002-10-31  
 ; PRIOR APPLICATION NUMBER: US 60/336,220  
 ; PRIOR FILING DATE: 2001-10-31  
 ; NUMBER OF SEQ ID NOS: 1446  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 620  
 ; LENGTH: 586  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-10-287-436A-620

Query Match 80.5%; Score 2487; DB 5; Length 586;  
 Best Local Similarity 82.7%; Pred. No. 1.6e-219;  
 Matches 492; Conservative 12; Mismatches 51; Indels 40; Gaps 7;  
 QY 1 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNRQETKYFSLPFCVSGSKSI 60  
 Db 13 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNRQETKYFSLPFCVSGSKSI 72  
 QY 61 SHYHETLGEALQGEVELEFSGLDIKPKDDVMPATYCEIDLKEDKDAFVAIAKHVYQMY 120  
 Db 73 SHYHETLGEALQGEVELEFSGLDIKPKDDVMPATYCEIDLKEDKDAFVAIAKHVYQMY 132  
 QY 121 IDDLPIWIGVGEADENGEDYLLTYKKLEIGFNGNRIVDNLTSSEGVKVLVNTKIQ 177  
 Db 133 IDDLPIWIGVGEADENGEDYLLTYKKLEIGFNGNRIVDNLTSSEGVKVLVNTKIQ 192  
 QY 178 MSYSVKWKSVDKVFEDRDKYLDPSFQRIHWFISFNSFMVIFLVGLVSMILMTRLRK 237  
 Db 193 FS---KMEKSDVKPREDRDNIL-IVLFQSHRIHWFISFNSFMVIFLVGLVSMILMTRLRK 248  
 QY 238 DYARYSKBEMDDMDRLDGEYGVKQVHGDVFRPSSHPLIFSSLGSGCOIFAVSLIIV 297  
 Db 249 DYARYSKBEMDDMDRLDGEYGVKQVHGDVFRPSSHPLIFSSLGSGCOIFAVSLIIV 308  
 QY 298 VAMIEDLYTERGSMSTAIFFVAATSPVNGYFGGSLYARQGRRTWKQMFAGFLIPAMV 357  
 Db 309 VAMIEDLYTERGSMSTAIFFVAATSPVNGYFGGSLYARQGRRTWKQMFAGFLIPAM- 367  
 QY 358 CGTAFINFIYHARAIPTCTMVAVCCICFFVILPLNLVGTILGRNLGSGPNPCRV 417  
 Db 368 ---GVHCLLHQFH-SHLLP-----CFKSHSFNNGRLLHLHLPFCYSSSKSCWY 411  
 QY 418 NAVPRIPB-----KQWFMPEPAVIVCLGGLPFGSIFTEMYFIPTSWA 461  
 Db 412 NTPKSVRSQAQLSLSCQCCASSYTGKRMVHGAIVCLGGLPFGSIFTEMYFIPTSWA 471  
 QY 462 YKIYVYVGFMMVLVLICIVTVCVITVCTYFLNNAEDYRQWTSFLSAASTAIYVYVMSF 521

Db 472 YKIIYVYGFMMVLVLVILCVITVCTVYFLLNAEDYRWQTSFSLSAATAIYVYMSF 531  
Qy 522 YYYFETKMYGLFQTSFYFGYMAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
Db 532 YYYFETKMYGLFQTSFYFGYMAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 586

## RESULT 6

US-11-097-143-22278  
; Sequence 22278, Application US/11097143  
; Publication No. US200502085881  
; GENERAL INFORMATION:  
; APPLICANT: Venter, J. Craig  
; APPLICANT: et al.  
; TITLE OF INVENTION: DETECTION KIT, SUCH AS NUCLEIC ACID  
; TITLE OF INVENTION: ARRAYS, FOR DETECTING EXPRESSION OF 10,000 OR MORE  
; FILE REFERENCE: CL000728  
; CURRENT APPLICATION NUMBER: US/11/097,143  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: 60/157,832  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: 60/160,191  
; PRIOR FILING DATE: 1999-10-19  
; PRIOR APPLICATION NUMBER: 60/161,932  
; PRIOR FILING DATE: 1999-10-28  
; PRIOR APPLICATION NUMBER: 60/164,769  
; PRIOR FILING DATE: 1999-11-12  
; PRIOR APPLICATION NUMBER: 60/173,383  
; PRIOR FILING DATE: 1999-12-28  
; PRIOR APPLICATION NUMBER: 60/175,693  
; PRIOR FILING DATE: 2000-01-12  
; PRIOR APPLICATION NUMBER: 60/184,831  
; PRIOR FILING DATE: 2000-02-24  
; PRIOR APPLICATION NUMBER: 60/191,637  
; PRIOR FILING DATE: 2000-03-23  
; NUMBER OF SEQ ID NOS: 43008  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 22278  
; LENGTH: 567  
; TYPE: PRT  
; ORGANISM: DROSOPHILA  
US-11-097-143-22278

Query Match 71.9%; Score 2222.5; DB 6; Length 567;  
Best Local Similarity 70.1%; Pred. No. 3.2e-195;  
Matches 406; Conservative 64; Mismatches 80; Indels 29; Gaps 2;  
Qy 2 ALWLLLLL----LPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROETKYFSLPFCVGSK 57  
Db 14 AICLLLIASCYSLSQADEHNHYNDREYVLMNTVGPYHNROETKYFSLPFCVGSQK 73  
Qy 58 KSISHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKDKRDAFYAIKKNHYWY 117  
Db 74 SSIISHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKDKRDAFYAIKKNHYWY 133  
Qy 118 QMYIDDLPIWGIVGEADENGEDYLLWYTKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQ 177  
Db 134 QMYIDGLPIWGIVGEADENGEDYLLWYTKKLEIGFNGNRIVDVNLTSEGKVKLVPNTKIQ 193  
Qy 178 MSYSVKWKKSDVKFEDRFDKYLDPSPFOHRIHWFSPFNSPMWJFLVGLVSMILMRLRK 237  
Db 194 FSYEVNWKPSKVEKFNKFDKYLDPNFFQHRHWFSPFNSPMWJFLVGLVSMILMRLRK 253  
Qy 238 DYARYSKEEEMDDMDRDLGDEYQWKGVDVFRPSSHPLIFSSLIIGSCCOIFAVSLVII 297  
Db 254 DYARYSKEEEMDDMDRDLGDEYQWKGVDVFRPSSHPLIFSSLIIGSCCOIFAVSLVII 313  
Qy 298 VAMIEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 357  
Db 314 FAIVGELYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 373

Qy 358 CGTAFINFIATYIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFCRV 417  
Db 374 CGTAFINFIATYIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFCRV 418  
Qy 418 NAVRPRIPDEKWFNEPAVIVCLGILPFGSIFIMYFIFTSFWAYKIYVYVGFMMVLVVI 477  
Db 419 -----KWYMEPLIIVLLGGVLPFGSIFIMYFIFTSFWAYKIYVYVGFMMVLVFSI 468  
Qy 478 LCIVTVCTVITVYFLLNAEDYRWQTSFSLSAATAIYVYMSFYFYFFKTKMYGLFQTS 537  
Db 469 LTVTVCTVITVYFLLNAEDYRWQTSFSLSAATAIYVYMSFYFYFFKTKMYGLFQTS 528  
Qy 538 FYFGYMAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
Db 529 FYFGYMAVSTALGIMCGAIGYMGTSFAVRKIYTNVKID 567  
RESULT 7  
US-10-205-219-121  
; Sequence 121, Application US/10205219  
; Publication No. US20030138803A1  
; GENERAL INFORMATION:  
; APPLICANT: Warner-Lambert Company  
; APPLICANT: Lee, Kevin  
; APPLICANT: Dixon, Alistair  
; APPLICANT: Brookbank, Robert  
; APPLICANT: Pinnock, Robert  
; TITLE OF INVENTION: Identification and Use of Molecules Implicated in Pain  
; FILE REFERENCE: WL-A-019200  
; CURRENT APPLICATION NUMBER: US/10/205,219  
; CURRENT FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: GB 0118354.0  
; PRIOR FILING DATE: 2001-07-27  
; NUMBER OF SEQ ID NOS: 197  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 121  
; LENGTH: 530  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: EP70-P-iso  
US-10-205-219-121

Query Match 70.8%; Score 2187; DB 4; Length 530;  
Best Local Similarity 80.9%; Pred. No. 5.3e-192;  
Matches 436; Conservative 12; Mismatches 51; Indels 40; Gaps 7;  
Qy 1 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROETKYFSLPFCVGSKSI 60  
Db 13 AALWLLLLLPRTRADEHEHTYQDKKEVVLWMNTVGPYHNROETKYFSLPFCVGSKSI 72  
Qy 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKDKRDAFYAIKKNHYWYQY 120  
Db 73 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLKDKRDAFYAIKKNHYWYQY 132  
Qy 121 IDDLPIWGIVGEADENGEDYLLWYTKKLEIGFNGNRIVDVNLTSEGKVKLV---VPNTKIQ 177  
Db 133 IDDLPIWGIVGEADENGEDYLLWYTKKLEIGFNGNRIVDVNLTSEGKVKLVYKYNPDVI 192  
Qy 178 MSYSVKWKKSDVKFEDRFDKYLDPSPFOHRIHWFSPFNSPMWJFLVGLVSMILMRLRK 237  
Db 193 FS---KMEKSDVKFEDRFDNII-IVLFSHRIHWFSPFNSPMWJFLVGLVSMILMRLRK 248  
Qy 238 DYARYSKEEEMDDMDRDLGDEYQWKGVDVFRPSSHPLIFSSLIIGSCCOIFAVSLVII 297  
Db 249 DYARYSKEEEMDDMDRDLGDEYQWKGVDVFRPSSHPLIFSSLIIGSCCOIFAVSLVII 308  
Qy 298 VAMIEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 357  
Db 309 VAMIEDLYTERGSMSTAIIFYAATSPVNGYFGGSLYARQGGRRWIKQMFIGAFLIPAMV 367  
Qy 358 CGTAFINFIATYIYHASRAIPFGTMVAVCCICFFVILPLNLVGTILGRNLSGQPNFCRV 417



Db 368 -----GVHCLLHQHF-SHLLP-----CFKSHSFWNNGRLLHLFFCYSSKSCWY 411  
 QY 418 NAVRPIPE-----KKWFMEPAVIVCLGGILPGSIFIEYFIETSWA 461  
 Db 412 NTWPKSVRSQAQLSLSCQCCASSTYGEKWVGAAVIVCLGGILPGSIFIEYFIETSWA 471  
 QY 462 YKIIYYVYGFMMVLVLVILCVTVCTVITVCTVYFLNNAEDYRWQWTSFLSAASTAIYYVYMS 520  
 Db 472 YKIIYYVYGFMMVLVLVILCVTVCTVITVCTVYFLNNAEDYRWQWTSFLSAASTAIYYVYMS 530  
 RESULT 8  
 US-10-425-115-325471  
 ; Sequence 325471, Application US/10425115  
 ; Publication No. US2004021427A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
 ; FILE REFERENCE: 38-21(53222)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,115  
 ; CURRENT FILING DATE: 2003-04-28  
 ; NUMBER OF SEQ ID NOS: 369326  
 ; SEQ ID NO 325471  
 ; LENGTH: 596  
 ; TYPE: PRT  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: MRT4577\_598C.1.pap  
 US-10-425-115-325471

Query Match 56.5%; Score 1744.5; DB 4; Length 596;  
 Best Local Similarity 56.5%; Pred. No. 3.1e-151;  
 Matches 324; Conservative 96; Mismatches 150; Indels 3; Gaps 3;  
 QY 6 LLLLLPRTRADHEHTYQDKEEVVLMWNTVGPYHNRQETKYFSLPFCVGSKKSI:SHYHE 65  
 Db 25 LAALLALASASDHKYTEEPVKLVWNVKVPYNNPQETNYYSLPFCQSPENP-THKWG 83  
 QY 66 TLGEALQGVLEFSGLDIKFDKDDVMPATYCEIDLDEKRDADFVYAIKNHYWQYIDDL 125  
 Db 84 GLGEVLGNNELDSLEIKFLNKEGFCITLDEDAKKVQPADAIESSYWFEPIDDL 143  
 QY 126 IWGIVEADENGED-YLWTYKLEIGFNGNRIVDNLVTSEKVKLVNPTKIQMSYSVKW 184  
 Db 144 LMGFVGESDKSENKHYLYTHKNILVKYNDNRHIIHVNLTQESPKLLEDGKKLEMTYSVKW 203  
 QY 185 KKSVDKFEEDRDKYLDPSFQHRHWFSTFNSFMVIFLVLGVSMLMRLTKRDYARYSK 244  
 Db 204 VATDVSFARRFVLDYDPFEHQHWFSTFNSFMVIFLVLGVSMLMRLTKRDYARYSK 263  
 QY 245 E-BEEMDDMDRLDGEYQKQVHGDVFRPSSHPLIFSSLIGSCQIFAVSLIIVIAMIED 303  
 Db 264 EDDDLLESLERDVNESGKLVHGDVFRPSPRLMFLSALVGIGTQALAILLVILVIAVGM 323  
 QY 304 LYTERGSMSTAIFYAATSPVNGYFGSLYARQGRRWIKOMFICAFILPAMVCGTAPP 363  
 Db 324 LYIGRGAIITTFIVCYALTSTFISGVSGLYSRSGGKNWIKAMVLTSILFPLFCPSIGFM 383  
 QY 364 INFIAIYHASRAIPFGTMVAVCCICPFVILPLNLVGTILGNLSGQNPFCRVNAVPRP 423  
 Db 384 LNTIAIFYRSLAAIPFGTMVAVCCICPFVILPLNLVGTILGNLSGQNPFCRVNAVPRP 443  
 QY 424 IPEKKWFMEPAVIVCLGGILPGSIFIEYFIETSWAYKIYYVYGFMMVLVLVILCVTV 483  
 Db 444 IPEKKWYLTSPVSLMGGLLPFGSIFIEYFVFTSWNYKVYVYVGFMLLVFVILLIYVI 503  
 QY 484 CVTIVCTVFLNNAEDYRWQWTSFLSAASTAIYYVYMSFYFFPKTKYGLFQTSYFQYM 543  
 Db 504 CVTIVGTVFLNNAEDYRWQWTSFSSAASTALYVLYSYIYHYHVKTKMGSGFFQTSYFGYT 563

QY 544 AVFSTALGCMCAIGYMGCTSAFVRKIYTNVKID 576  
 Db 564 LMFCUGLGCALGILGTLFVRRIYRNKID 596  
 RESULT 9  
 US-10-437-963-141888  
 ; Sequence 141888, Application US/10437963  
 ; Publication No. US20040123343A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: La Rosa, Thomas J.  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Cao, Yongwei  
 ; APPLICANT: Wu, Wei  
 ; APPLICANT: Boukharov, Andrey A.  
 ; APPLICANT: Barbazuk, Brad  
 ; APPLICANT: Li, Ping  
 ; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
 ; FILE REFERENCE: 38-21(53221)B  
 ; CURRENT APPLICATION NUMBER: US/10/437,963  
 ; CURRENT FILING DATE: 2003-05-14  
 ; NUMBER OF SEQ ID NOS: 204966  
 ; SEQ ID NO 141888  
 ; LENGTH: 617  
 ; TYPE: PRT  
 ; ORGANISM: Oryza sativa  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_42949C.1.pap  
 US-10-437-963-141888

Query Match 56.5%; Score 1744; DB 4; Length 617;  
 Best Local Similarity 53.9%; Pred. No. 3.6e-151;  
 Matches 326; Conservative 99; Mismatches 150; Indels 30; Gaps 4;  
 QY 1 AALMLLLPRTRADHEHTYQDKEEVVLMWNTVGPYHNRQETKYFSLPFCVGSKKSI 60  
 Db 14 AAVLLVFLAPLAASDSHDHYQSEKVKLVWNVKVPYNNPQETNYYSLPFCCHPSNNPV 73  
 QY 61 SHYHETGEALQGVLEFSGLDIKFDKDDVMPATYCEIDLDEKRDADFVYAIKNHYWQY 120  
 Db 74 -HKWGLGEVLGNNELDSQIDIKFGRDVKGTICSIELDPDKAKQLSDAIESSYWFEPF 132  
 QY 121 IDDLPIWIGVEADENGED-YLWTYKLEIGFNGNRIVDNLVTSEKVKLVNPTKIQMS 179  
 Db 133 IDDLPLMGFVGGEADRNDSNKYFLETHKNIVIRYNGNQIIHVNLTQESPKLIDAGKALDMT 192  
 QY 180 YSVKWKSDVKFEEDRDKYLDPSFQHRHWFSTFNSFMVIFLVLGVSMLMRLTKRDY 239  
 Db 193 YSVKWEPTNVTFAHRFDVLDYDPFEHQHWFSTFNSFMVIFLVLGVSMLMRLTKRDY 252  
 QY 240 ARYSK-EBEEMDDMDRLDGEYQKQVHGDVFRPSSHPLIFSSLIGSCQIFAVSLIIV 298  
 Db 253 AKYARDDDLLETLERDVSESGKLVHGDVFRPSPRLSALLSALVGGTQLSALLLVILL 312  
 QY 299 AMIEDLYTERGSMSTAIFYAATSPVNGYFGSLYARQGRRWIKOMFICAFILPAMVC 358  
 Db 313 AIIGMLYIGRAIITTFIVCYALTSTFISGVSGLYSRSGGKNWIKAMIMTASLFPFMC 372  
 QY 359 GTAFFINFIAIYHASRAIPFGTMVAVCCICPFVILPLNLVGTILGNLSGQNPFCRVN 418  
 Db 373 GIGLVNTIAIFYRSLAAIPFGTMVAVCCICPFVILPLNLVGTILGNLSGQNPFCRVN 432  
 QY 419 AVPRPIPEKKWFMEPAVIVCLGGILPGSIFIEYFIETSWAYKIYYVYGFMMVLVLVIL 478  
 Db 433 TIPRIPEKKWYLTSPVIALMGGLLPFGSIFIEYFVFTSWNYKVYVYVGFMLLVFLL 492  
 QY 479 CIVTVCTVITVCTVFLNNAEDYRWQWTSFLSAASTAIYYVYMSFYFFPKTKYGLFQTSF 538  
 Db 493 IIVTICVTIVGTVFLNNAEDYRWQWTSFSAASTAVYVLYSYVYHYHVKTKMGSGFFQTSF 552



**Qy** 542 YMAVFSTALGIMCGAIGMGTSAFVRKIYTNVKID 576  
| : | |||:|||||::|||:| :|  
**Dd** 562 YTUMFCLGLGILCAIGYLGSTLFVRRIVRNKCD 596

```

RESULT 13
US-10-739-930-9909
; Sequence 9909, Application US/10739930
; Publication No. US20040216190A1
; GENERAL INFORMATION:
; APPLICANT: Kovalic, David K.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: PLANTS AND USES THEREOF FOR PLANT IMPROVEMENT
; FILE REFERENCE: 38-21(53377)B
; CURRENT APPLICATION NUMBER: US/10739,930
; CURRENT FILING DATE: 2003-12-18
; NUMBER OF SEQ ID NOS: 11088
; SEQ ID NO 9909
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Triticum aestivum
; FEATURE:
; OTHER INFORMATION: Clone ID: TRIAE-23APR03-C2111_1.p
US-10-739-930-9909

```

[illegible]

RESULT 14  
US-10-425-114-66140  
; Sequence 66140, Application US/10425114

; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaska, Jack E.  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(5313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 66140  
; LENGTH: 576  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: LIB4573-008-E4\_FLI.pep  
US-10-425-114-66140

Query Match 53.0%; Score 1636.5; DB 4; Length 576;  
Best Local Similarity 53.1%; Pred. No. 2.6e-141;  
Matches 307; Conservative 92; Mismatches 142; Indels 37; Gaps 3;  
  
Qy 1 AALWLLLLPRTRADEHEHTYQDKKEVVLMMNTVGPYHNRQETKYFSLPFCVGSKKSI 60  
Db 34 AAILIAVAHSPLAYASEAEHKYKTEEPVKLVWVKV-----68  
  
Qy 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKEKRDAPFYAIKHNHYWQMY 120  
Db 69 -----LGGNELDSQIDIKFKVNDKGAICTIELDVQKQQFANAIENSYWELF 118  
  
Qy 121 IDDLPIWIGVEADENGE-DYLLWYTKLEIGNGNRIVDVNLTSEGVKLVNPTKIDY 179  
Db 119 IDDLPLMGFGVGETDKNEKKHYLTHKNIVVKYNGNRHIIHVNLTQESPKLEAGKKLDMT 178  
  
Qy 180 YSVKWKSDVKFDRPKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 239  
Db 179 YSVKWKVQTNVAFARRFEVLDYDPFHEQIHWFSIFNSFMVIFLTGLVSMILMRTLNDY 238  
  
Qy 240 ARYSKE-EEMDDMRDLGDEYGVKQVHGVFSGSLYARQGRRWIKOMFTGAFILPAMVC 298  
Db 239 AKYAREDDLESLESDVNEESGKLVHGDVFRPPRGQVFLSALVGIGTQLAALLIVIL 298  
  
Qy 299 AMIEDLYTERGSMLETAIFVYAATSPVNGYFGGSLYARQGRRWIKOMFTGAFILPAMVC 358  
Db 299 AIVVMLYVGRGAIITTFIVCYALTSPISGVYSGGLYSRNGGKWKIKAMILTASLFPFLCF 358  
  
Qy 359 GTAFFINFIAIYHASRAIPFGTMVAVCCICFPVILPLNLVGTILGNLSGQPNFPCRVN 418  
Db 359 SIGLLNTIAIFRSLAAIPFGTMVAVCCICFPVILPLNLVGTILGNLSGQPNFPCRVN 418  
  
Qy 419 AVPRPIPEKKWMEPAVIVLGGILPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLIL 478  
Db 419 TIRPIPEKKWYLPSPVISLGGILPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLIL 478  
  
Qy 479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLPOTSF 538  
Db 479 IIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLPOTSF 538  
  
Qy 539 YFGYMAVFTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
Db 539 YFGYTLMFCLGLGILCGAVGLGTLFVRRIYRNKID 576

## RESULT 15

US-10-425-115-286624  
; Sequence 286624, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 286624  
; LENGTH: 552  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_24498C.1.pep  
US-10-425-115-286624

Query Match 52.9%; Score 1635.5; DB 4; Length 552;  
Best Local Similarity 52.9%; Pred. No. 3e-141;  
Matches 306; Conservative 93; Mismatches 142; Indels 37; Gaps 3;  
  
Qy 1 AALWLLLLPRTRADEHEHTYQDKKEVVLMMNTVGPYHNRQETKYFSLPFCVGSKKSI 60  
Db 10 AAILIAVAHSPLAYASEAEHKYKTEEPVKLVWVKV-----44  
  
Qy 61 SHYHETLGEALQGVLEFSGLDIKFKDDVMPATYCEIDLDKEKRDAPFYAIKHNHYWQMY 120  
Db 45 -----LGGNELDSQIDIKFKVNDKGAICTIELDVQKQQFANAIENSYWELF 94  
  
Qy 121 IDDLPIWIGVEADENGE-DYLLWYTKLEIGNGNRIVDVNLTSEGVKLVNPTKIDY 179  
Db 95 IDDLPLMGFGVGETDKNEKKHYLTHKNIVVKYNGNRHIIHVNLTQESPKLEAGKKLDMT 154  
  
Qy 180 YSVKWKSDVKFDRPKYLDPSFQHRHWFSEIFNSFMVIFLVGLVSMILMRTLKDY 239  
Db 155 YSVKWKVQTNVAFARRFEVLDYDPFHEQIHWFSIFNSFMVIFLTGLVSMILMRTLNDY 214  
  
Qy 240 ARYSKE-EEMDDMRDLGDEYGVKQVHGVFSGSLYARQGRRWIKOMFTGAFILPAMVC 298  
Db 215 AKYAREDDLESLESDVNEESGKLVHGDVFRPPRGQVFLSALVGIGTQLAALLIVIL 274  
  
Qy 299 AMIEDLYTERGSMLETAIFVYAATSPVNGYFGGSLYARQGRRWIKOMFTGAFILPAMVC 358  
Db 275 AIVVMLYVGRGAIITTFIVCYALTSPISGVYSGGLYSRNGGKWKIKAMILTASLFPFLCF 334  
  
Qy 359 GTAFFINFIAIYHASRAIPFGTMVAVCCICFPVILPLNLVGTILGNLSGQPNFPCRVN 418  
Db 335 SIGLLNTIAIFRSLAAIPFGTMVAVCCICFPVILPLNLVGTILGNLSGQPNFPCRVN 394  
  
Qy 419 AVPRPIPEKKWMEPAVIVLGGILPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLIL 478  
Db 395 TIRPIPEKKWYLPSPVISLGGILPFGSIFEMFYFTSFMAKYIYVYVGFMMVLVLIL 454  
  
Qy 479 CIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLPOTSF 538  
Db 455 IIVTVCVTIVCTYFLLNAEDYRWQWTSFLSAASTAIYVVMYSFYFFKTKMYGLPOTSF 514  
  
Qy 539 YFGYMAVFTALGIMCGAIGYMGTSFAVRKIYTNVKID 576  
Db 515 YFGYTLMFCLGLGILCGAVGLGTLFVRRIYRNKID 552

Search completed: December 7, 2005, 13:01:58  
Job time : 128.55 secs



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; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 868
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-868

Query Match          3.5%; Score 109; DB 6; Length 468;
Best Local Similarity 20.3%; Pred. No. 0.058;
Matches 72; Conservative 58; Mismatches 130; Indels 94; Gaps 16;

QY 253 RDLGDEYGVKQVHGDFRPSHPLIFSSLTGSCQIFAVS--LIVIVAMIEDLYTERGS 310
DB 29 RYLGHLEFWAVHNNIR-----ALIVAITSFVLIVLVAYMVQLHNNRIY 73

QY 311 MLSTAIFFVYAATSPVNGYFGGSLYAROGRRWIKOMFIGAF-LIPAMVCGTAFINFI 369
DB 74 FILS--FVLMVTVP-----NTIYSETYG--W-----FTGFFSYIPATV--LSLFI 117
QY 370 YYHASRAIPFGTMVAVCCICFFVILPLNLVCTILGRNLGQPNPCRVNAVPRPIPEKK- 428
DB 118 KKIESHD-----TVSEMQLWVLLVSLFGQFFLENLSIILIGWVVFVKKRL 170
QY 429 --WFMEPAVIVCLGILPFGSIFIEMYPIF-----TSFWAYKIYV 467
DB 171 SYFLVGFMLSCIGNIIMFLNF--NYFLIKDGLNTHYSISDSHGMIHKAGVTILFKL 227
QY 468 YGFM--MLVLVILCIVTV-----CVTI-VCTYFLNNAEDYRW 501
DB 228 YMFNQMIILTVISIVSVLLKQKSLKHMVRVYIKIPLLGLITLPTIYKIFVYNQPH 287
QY 502 QWTSFLSAA--STAIVVMYSFYFFKTKMYGLFQTSFYFGYNAVSTALGIM 553
DB 288 YKASFSIAVLNTTICFIYMSIVVVFVKMQOQRIYRMVMSGFAMASSVLPDLL 341

RESULT 4
US-11-082-389-332
; Sequence 332, Application US/11082389
; Publication No. US20050244935A1
; GENERAL INFORMATION:
; APPLICANT: Pompejus, Markus
; APPLICANT: Kroger, Burkhard
; APPLICANT: Schroder, Hartwig
; APPLICANT: Zelder, Oskar
; APPLICANT: Haberhauer, Gregor
; TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS
; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE
; FILE OF INVENTION: TRANSPORT
; FILE REFERENCE: BGI-131CPCN
; CURRENT APPLICATION NUMBER: US/11/082,389
; CURRENT FILING DATE: 2005-03-16
; PRIOR APPLICATION NUMBER: US 09/603024
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 60/141031
; PRIOR FILING DATE: 1999-06-25
; PRIOR APPLICATION NUMBER: US 60/143262
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: US 60/151281
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: DE 19930487.4
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19930489.0
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: DE 19931549.3
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19931550.7
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: DE 19932134.5
; PRIOR FILING DATE: 1999-07-09
; PRIOR APPLICATION NUMBER: DE 19941379.7
; PRIOR FILING DATE: 1999-08-31
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 446
; SEQ ID NO 332
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-11-082-389-332

Query Match          3.5%; Score 108.5; DB 7; Length 433;
Best Local Similarity 19.8%; Pred. No. 0.057;
Matches 77; Conservative 55; Mismatches 144; Indels 113; Gaps 19;

QY 276 LIFSSLIIGSCQIFAVSLIIVIAMT-EDLYTERGSMSTAIFFVYAATSPVNGYF---GG 331
DB 19 VLLGSLSGSVIEWDFLVYGTVAALVFNKMYFPGSNEFLSTILAYASFS-LTFFFRPIGG 77
QY 332 SLYAROG---GRRWIKQMEFIGAFILPAMVCGTAFINFI 369
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Db 374 KINFNMQVVIWWSGLMRGAVSMALAYNKFTAGHTDVRGNAIMTSTITVCLFSTVVFGM 433
Qy 448 I 448
Db 434 L 434

RESULT 7
US-11-090-439-18
; Sequence 18, Application US/11090439
; Publication No. US20050266442A1
; GENERAL INFORMATION:
; APPLICANT: Squillace, Rachel P.
; APPLICANT: Weiner, Michael P.
; TITLE OF INVENTION: Immortalized Human Tuberos Sclerosis Null
; FILE REFERENCE: 24318-502
; CURRENT APPLICATION NUMBER: US/11/090,439
; CURRENT FILING DATE: 2005-03-25
; PRIOR APPLICATION NUMBER: 60/556,344
; PRIOR FILING DATE: 2004-03-25
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 18
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-090-439-18

Query Match 3.0%; Score 94; DB 7; Length 553;
Best Local Similarity 16.2%; Pred. No. 1.2; Indels 150; Gaps 12;
Matches 59; Conservative 49; Mismatches 107;

Qy 161 NLTSEGKVLVPTKIQMSYSVKWKSDVKPDRFDKYLDPSPFQHRHWFPSIFNSFMV 220
Db 249 NKAHSGRIKISLNDISRECKDHVS-----GSIQKNTHYMWIFDAFVIL 294

Qy 221 IFVLGLV-----SMILMRTLKDYA-----RYSKSEEMDDMDRDLGDEYGWKQVHGDVFRP 271
Db 295 TCLVSLILCIRSVIRGLQOEYFNFFLLHYKKEVSVDQMEFVN---GW----- 341

Qy 272 SSHPLIFSLIGSGCQIFAVSLIVIAVIDEVLTERGSMSTAFVYVAATSPVNGYFGG 331
Db 342 -----YMIISDILITIGSILKMEIOAKSLTS----- 369

Qy 332 SLYARQGRRWIKQMFAGFLIPAMVCGTA-----FFINFIAYYHASRAIP 378
Db 370 -----YDVCSILLGTSTMLVWLGVIRYLGFFAKYNLLILTLQAALP 410

Qy 379 FGTWAVC-----CICFFVIL-----PLNLVGTILGRNLSGQNPFCRCVNAVPR 422
Db 411 NVIRFCCCAAMIYLGYCFCGWIIVLGPVHDKFRSLNMVSECLFSLINGDDMF----- 461

Qy 423 PIPEKWFMEPAVIVCLGGILPFGSIFTEMYFIFTSFAYKIVYVYVGFMM-LVLVILCIV 481
Db 462 -----ATFAMQOKSYLV-----WLFBSRIYLSFISLFIYMIUSLF 497

Qy 482 TVCVT 486
Db 498 IALIT 502

RESULT 8
US-10-821-234-1389
; Sequence 1389, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Grain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
```

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; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: PCT_SEQ_genes Version 1.0
; SEQ ID NO 1389
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1389

Query Match 3.0%; Score 93.5; DB 6; Length 407;
Best Local Similarity 21.5%; Pred. No. 0.91;
Matches 59; Conservative 32; Mismatches 67; Indels 117; Gaps 15;

Qy 342 WIKQMPFGAFLIPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFFVI----- 393
Db 161 WTK--FCGA-LRPDKIVWGIFFI-----LVAL-----LFVISLFLSLND 196

Qy 394 LPLNLVG-----TILGRNLSGQNPFCRCVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSI 448
Db 197 KALHSAGIDSGFIIFGANLSNPLNM-----LLPLLQTVFPLDYI 235

Qy 449 FIE---MYPIFTS-----FW--AYKI-----YYVYGFMMVLVILCIVTVVC 484
Db 236 LITIIIMYFIFTSMAGIRNIGIMFFWIRLKIRRGTRRPOALLFLCMLILLIVLHTSYMI 295

Qy 485 VTIIVCTVYFLNARDY-----RMQWTSFLSAAS-----TAIYVYVMSFY 522
Db 296 YSLAPQVMTGSONYLIETNITSDNHKGNSTLSVPKRCADADAPEDQCTVTRTYULFLHKFW 355

Qy 523 YFFFKTKMYGLFQTSFYFG---YMAVFSTALGIMC 554
Db 356 F-----FSAAYYFGNWAFLGVFLGLIIVSC 380
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## RESULT 9

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US-10-689-742-164
; Sequence 164, Application US/10689742
; Publication No. US20050250180A1
; GENERAL INFORMATION:
; APPLICANT: Jacobs, Kenneth
; APPLICANT: McCoy, John M
; APPLICANT: LaVallie, Edward R
; APPLICANT: Racie, Lisa A
; APPLICANT: Evans, Cheryl
; APPLICANT: Merberg, David
; APPLICANT: Treacy, Maurice
; APPLICANT: Spaulding, Vikki
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM
; FILE REFERENCE: 00766.000091.10
; CURRENT APPLICATION NUMBER: US/10/689,742
; CURRENT FILING DATE: 2003-10-22
; PRIOR APPLICATION NUMBER: 09/746,783
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 164
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-689-742-164
```

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Query Match 3.0%; Score 93.5; DB 6; Length 464;
Best Local Similarity 21.5%; Pred. No. 1.1;
Matches 59; Conservative 32; Mismatches 67; Indels 117; Gaps 15;

Qy 342 WIKQMPFGAFLIPAMVCGTAFINFIAYYHASRAIPFGTMVAVCCICFFVI----- 393
Db 221 WTK--FCGA-LRPDKIVWGIFFI-----LVAL-----LFVISLFLSLND 256

Qy 394 LPLNLVG-----TILGRNLSGQNPFCRCVNAVPRPIPEKKWFMEPAVIVCLGGILPFGSI 448
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Db 257 KALHSAGIDSGPIIFGANSPLNN-----LLPLQTVFPLDYI 295
Qy 449 FIE---MYFIPTS-----FW--AYKI-----YVYGFMMVLVLIVCIVVC 484
Db 296 LITIIMFIFISMGIRNIGWFIIRYKIRGRTRPQALLFLCMLLIVLHTSYMI 355
Qy 485 VTIVCTYFLNADY-----RWQWTSFLSAAS-----TAIVVMYSFY 522
Db 356 YSLAPQYVMYGSQYLIETNITSDNHKGNSTLSVPKRCADADAPEDQCTVTRTFLPHKF 415
Qy 533 YFFKTKMYGLPQTSFYFG-----YMAVFTALGIMC 554
Db 416 F-----FSAAYYFGNWAFLGVLIGLIVSC 440

RESULT 10
US-10-485-517-344
; Sequence 344, Application US/10485517
; Publication No. US20050256299A1
; GENERAL INFORMATION:
; APPLICANT: University of Sheffield
; APPLICANT: Biosynexus Incorporated
; APPLICANT: Foster, Simon
; APPLICANT: Mond, James
; TITLE OF INVENTION: Antigenic Polypeptides
; FILE REFERENCE: P100629W0
; CURRENT APPLICATION NUMBER: US/10/485,517
; CURRENT FILING DATE: 2004-02-02
; PRIOR APPLICATION NUMBER: GB 0118825.9
; PRIOR FILING DATE: 2001-08-02
; PRIOR APPLICATION NUMBER: GB 0200349.9
; PRIOR FILING DATE: 2002-01-09
; NUMBER OF SEQ ID NOS: 424
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 344
; LENGTH: 506
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-10-485-517-344

Query Match 3.0%; Score 93.5; DB 6; Length 506;
Best Local Similarity 18.6%; Pred. No. 1.2;
Matches 71; Conservative 55; Mismatches 129; Indels 127; Gaps 16;

Qy 243 SKEEMDDMDRLDGEYQWQVHGDV-----PRPSHPLIFSSLIGSGCQIPAV 291
Db 17 NKQIDRGDLKQNLSEKFWAAYGSCIGWGAFFILPGDWIKOSGPIAAS-----IGIVIGAL 72
Qy 292 SLIVIV---AMIEDLYTERG-----SMLSTAIFV-----YAATSPVNG----- 327
Db 73 LMLIAVSYGALVERFPVSGGAFAPFSLFGRYVSFFSSWFLTFGYVCVVALNATAFSL 132
Qy 328 -----YFGSGLYARQGRRWIKQMFIGAFLIPAMVCGTAFINFIATYYHASRAIPF 379
Db 133 VKFLLPDVLNNGKLYTIAGWDVYITEIIATVLLVFLMT-----IRGASVS 180
Qy 380 GTWAVAVCCIFEVILPLNLVLTIGRLNSGQNPFCRVNAVPRPIPEKKWMEPAVIVCL 439
Db 181 GSLQYVFCVAMVIVVLLMFFGSGFNGNPALE-----NLQPLAEPKGLVLSVIVV-- 231
Qy 440 GGLPFGSFIEMFYIFTSFWAYKIYYVYVGMVLVLIVLCIVTCVIVCYFLLNADY 499
Db 232 -SVAP-----WAY-----VGFDNIP-----QTAEF 251
Qy 500 RWQWT-----SFLSAATAIYVMYSFYVYFFKTKMYG-----LFQTSFYFGYMA 544
Db 252 NFAPNKTFLIVYSLAASLTIVVMILYTWMLSTSHQSLNGQLMTGAVTQTA--FGYIG 309
Qy 545 VFSTALGIMCAIGVMGTSAFV 566
Db 310 LGVLAIAIMMGI--FTGLNGEL 329
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```
RESULT 11
US-10-793-626-154
; Sequence 154, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: P03480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 154
; LENGTH: 1006
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-154

Query Match 3.0%; Score 92.5; DB 6; Length 1006;
Best Local Similarity 18.8%; Pred. No. 3.6;
Matches 73; Conservative 68; Mismatches 128; Indels 119; Gaps 19;

Qy 18 HEHTYQDK-----EEVVLMMNTVGPYHNRQETKYKFSLPFCVCGSKKSISHYHETLG 68
Db 340 HONVYDMKTGOYRKATYKDIVILERSFGQARNLQAPKKNNDIPPHVNSKE--GYFEQT-- 395
Qy 69 EALQGVLEFSGLDIKPKDDVMPATYCEIDLDEKRDFAFYAIKNHYWYQWIDDLPIWG 128
Db 396 ----EVRLLVLSFLR-----TIDNPLQDIYLVGLMRSVIYQFTEESLABIR 436
Qy 129 IVGEADENGEDYLLWTYKLEIGFNG-NRIYD-VNLTSEGKVKLVPNTKIQMSYSVKWK 186
Db 437 VVSPHD----DYFYQSINKNYMIDEKADSLVDKLN-----RFIDQIKQNTSL--SQ 483
Qy 187 SDVKFERDFKYLDPSPFQH-----RIHWFSIPNS-----FMVIFLV 224
Db 484 PVYQLIDKF--YNDHFVIQYFSGLIGGKGRANLYGLFNKAVFENSSFRGLFQFIRFID 541
Qy 225 GLV-----SMILMRTLKD-----YARYSKEEEMDDMDRDB--LGD 257
Db 542 ELIDRKXDFGENVGVNDNVVRMTTHSSKGLBFPFVIYSGLSKKFNKGNLNAFVILNQ 601
Qy 258 EYGHKQVHGDVFRPSSHPILFS-----SLIGSGCQIFAVSLI-----VIIAMIED 303
Db 602 QYGLGMDYFDVNDKMDAPFSLASVAYRAINEKELISEMRLLIYVALTRAKEQLILVGRVKD 661
Qy 304 ----LYTERGSMLSTAIFV---YAATSP 324
Db 662 EKSLIKVEQLAVSDTHIAVNERLTATNP 689

RESULT 12
US-10-131-826A-14
; Sequence 14, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
```

; APPLICANT: Smith,Victoria  
 ; APPLICANT: Stewart,Timothy A.  
 ; APPLICANT: Tumas,Daniel  
 ; APPLICANT: Watanabe,Colin K  
 ; APPLICANT: Wood,William  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
 ; FILE REFERENCE: P333031C128  
 ; CURRENT FILING DATE: 2002-04-24  
 ; PRIOR APPLICATION NUMBER: 60/049911  
 ; PRIOR FILING DATE: 1997-06-18  
 ; PRIOR APPLICATION NUMBER: 60/056974  
 ; PRIOR FILING DATE: 1997-08-26  
 ; PRIOR APPLICATION NUMBER: 60/059113  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/059115  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/059117  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/059122  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/059184  
 ; PRIOR FILING DATE: 1997-09-17  
 ; PRIOR APPLICATION NUMBER: 60/059263  
 ; PRIOR FILING DATE: 1997-09-18  
 ; PRIOR APPLICATION NUMBER: 60/059352  
 ; PRIOR FILING DATE: 1997-09-19  
 ; PRIOR APPLICATION NUMBER: 60/059588  
 ; PRIOR FILING DATE: 1997-09-19  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 550  
 ; SEQ ID NO 14  
 ; LENGTH: 541  
 ; TYPE: PRT  
 ; ORGANISM: Homo Sapien  
 US-10-131-826A-14  
 Query Match 3.0%; Score 92; DB 6; Length 541;  
 Best Local Similarity 18.3%; Pred. No. 1.7; Indels 228; Gaps 28;  
 Matches 100; Conservative 64; Mismatches 64  
 QY 81 LDIKFKDDVMPATYCEIDLDKE---KRDAFYVAIKNHYYQW-----119  
 DB 116 LDIKFKDDVMPATYCEIDLDKE---KRDAFYVAIKNHYYQW-----119  
 QY 120 -----YIDLPITWIGVEADENGEDYLLWY-----KLEIGPNGNRIVDVNLT 164  
 DB 170 PEHEGRYYECVLPFMEIGSAVHK---FYLLNIRLPVNEKKINVGI--GEIKDIRLVG 223  
 QY 165 -----EGKVKLPVNTKIOMSVKWKSDVKFEDR-----FDKYLDPSP 203  
 DB 224 IHONGGFTKVPAMKTFLTPTSFIFIMVW--YWR--ITMGRPPVLLKVFALGISMFT 279  
 QY 204 FQHRHWFISI-----FNSFMVVIPLVGLVSMILMRTLKDYARYSKEEEDMDRD 254  
 DB 280 INIPVWFSGIDFTWMLFGDIRGIFVALLSFWII-----FCGEHMDQHERN 330  
 QY 255 LGDEYGWKQVHGDVFRPSPHPLIFSLIGSCQIPAVSLIIVIAMIEDLYTERGSMIST 314  
 DB 331 HIAGY-WKQV-GPI-----AVGSFC-----LFIIFDM-CERGVQLTN 363  
 QY 315 AIFVVAATSPVNGYGGSLYARQGRRIWKQMFICAFILPAMVCGTAFINFIAYIYHAS 374  
 DB 364 PFYSITWTD-----IGTELAMAFI-----382  
 QY 375 RAIPFGTMVAVCCICFFVTLPLNLVTILGRNLGSPNFPKCRVNAVPRPIPEKKWFEPA 434  
 DB 383 -----IVAGICLCLYFLFCFMVQVFP-RNISQKSSLPAMSKVRR-----422  
 QY 435 VIVCLGGILPFGSIFIEWYFIFTSPWAKYIY---VYGFMMLLVLIVLCIVTVCVITVCTY 491

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; SEQ ID NO 368
; LENGTH: 412
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-368

Query Match      2.9%; Score 89.5; DB 6; Length 412;
Best Local Similarity 21.1%; Pred. No. 2;
Matches 59; Conservative 42; Mismatches 83; Indels 95; Gaps 14;

QY 213 IFNSFMWIFVLGLVSMILMRLTRKDYARYSKKEEMDDMDRLDGLDEYGWKQVHGVDFRPS 272
Db 196 ILGLSLIIVLVAVALVLGVGFH--YSQYA-----DNAEPVGM-----ALRES 237
QY 273 SHPLIFSSLIIGSGCOIFAVSLIIVIAMIEDLYTERGSMLSAIFVYAATSPVNGYFGGS 332
Db 238 GHGII-----AAIVQAISVIGMFTALI-----GNNLAGSRLLYS----- 271
QY 333 LYAROG-GRRWIKOM-----FIGAFILPAMVCGTAPFINFIAIYYHASRAIPFGTMV 383
Db 272 -FGRDGLFSLWSQLNKHLPNRLALVILTIIGVWIGSMFPFAFLA-----QLISAGTLV 324
QY 384 AVCCICFFVILPLNLVGTTLGRNLSGQPNFPCRVNAVPRPIPEKKWFMPEPAVIVCLGGIL 443
Db 325 AP-----MFVSLAWYLRKREKGLD-----PRPEFKLPLYP-----IL 357
QY 444 PFGSIFIEWYFIFTSFWAY-----KIYVYVGMMLVLVIL 478
Db 358 P-----AITFILVLLVFWGLSPEAKLYTLWFIWGIIVL 392
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## RESULT 15

```
US-10-793-626-504
; Sequence 504, Application US/10793626
; Publication No. US20050255478A1
; GENERAL INFORMATION:
; APPLICANT: KIMMERLY, WILLIAM JOHN
; TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
; FILE REFERENCE: PUS3480US
; CURRENT APPLICATION NUMBER: US/10/793,626
; CURRENT FILING DATE: 2004-03-04
; PRIOR APPLICATION NUMBER: 60/164,258
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 4472
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 504
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
; OTHER INFORMATION: amino acid sequence
US-10-793-626-504
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Query Match      2.9%; Score 89; DB 6; Length 346;
Best Local Similarity 20.4%; Pred. No. 1.7;
Matches 73; Conservative 56; Mismatches 133; Indels 96; Gaps 18;

QY 267 DVFRPSSHPL-----IPSSLIIGSCQIFAVSLIIVIAMIEDLY-TERG 309
Db 24 EVFLMSSYCLLVIGTHTKQLQETIKYILNVNVSFFVGVAVLVSVVGTNLHAISERL 83
QY 310 SMLST-----AIFVYAATSPVNGYFGGSFYARQGRRWIKOMFIGAFILPAMV 357
Db 84 SOLSDHDSGLNVNIVFILFVFATKA---GVF--PMYV-----WLP-----GAYVAPVA 128
QY 358 CGTAF--FINFIAIYYHA--SRAIPFGTMVAVCCICFFVILPLNLVGTTLGRNLSGQPNFP 414
Db 129 IITFFGALLTKGVVAVIARTLSLPFNTVS---FSHYVILFLALITIFG----- 175
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QY 415 CRVNAVPRPIPEKKWFMPEPAVIVCLGGILPGRSIFIEWYFIFTSFWAYKIYVYVGMMLV 474
Db 176 C-IGAIA-----YYDTKKIILYNIMVAVGVILVGIAMMNEGMTGAIIYITLHDMLVK 226
QY 475 LVILCIVTVCTIVCT-----YFLINABDYRWQWTSFLSAAASTAIYVYMYSPY 522
Db 227 ASLFLILGVMYKITKTTLDRHFGGLIKGPILG-----WTFIAALSLAGIPFSGFY 279
QY 523 YYPFKTKMYGLPQTSFYEGYNAVFS TALGIMCGAI-----GYMG-TSAFVRKIYTNVK 574
Db 280 GKFYIVR--ATFEKGFYLSGIIVLLSSILVLYSVIRIFLKGFFGVEGYTLSSKKNVK 335
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Search completed: December 7, 2005, 13:02:16  
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